Department of Economics, University of Bombay
Operations Research Group, Baroda

SURVEY of INDIA'S EXPORT POTENTIAL of OILCAKES

April 1969 Vol. V A (of five)

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SURVEY
OF
INDIA'S EXPORT POTENTIAL
OF
OILCAKES

Prepared under the guidance of
THE EXPORT PROMOTION DIVISION
U.S. Agency for International Development, New Delhi
for
THE MINISTRY OF FOREIGN TRADE AND SUPPLY
Government of India

DEPARTMENT OF ECONOMICS
University of Bombay, Bombay
and
OPERATIONS RESEARCH GROUP
Baroda

SUPPLY DISTRIBUTION

SUPPLY DISTRIBUTION

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Explanatory Notes and Sources of Statistical Data:

The supply distribution tables on oilseeds, oilcakes and fish meal and the protein equivalent thereof are presented in a series of 9 tables for each country and region.

Net availability of oilcakes and fish meal for domestic use is derived as follows: Production of oilseeds plus net trade in oilseeds (production + Imports - Exports). These oilseeds are converted into cake/meal by using the following rates in percentages

Content of cake/meal	Percentage
Soyabeans	79
Cottonseed	42
Groundnuts (shelled)	56
Sunflowerseed	67
Rapeseed	55
Sesameseed	52
Copra	35
Palm Kernel	52
Linseed	64
Others	70

The raw protein content of each cake/meal is taken at the following percentage rates:

	Raw Protein content
Soyabeans	46
Cottonseed	41
Groundnut	52
Sunflowerseed	37
Rapeseed	36
Sesameseed	40
Copra	22
Linseed	36
Palm Kernel	18
Other oilcakes	37
Fish Meal	65

No adjustments are made for stocks and other uses of oilseeds, viz. direct consumption as food and confectionary. This end-use would affect in the main groundnuts. In the case of Japan, direct consumption of soyabeans is very high; we have used the figures of oilcake produced in Japan for which data are directly available. In regard to the use of oilseeds for seeding purposes, the major importing

countries do not have such uses; it is, however, significant varying from 10 to 12 percent in the oilseeds producing countries. To that extent, oilcake production in the major oilseeds-producing countries is overestimated. It has been assumed that all oilcake is used for livestock and poultry feed. Whilst this would affect the level of consumption (apparent consumption in the supply-distribution tables), the trend would be more or less unchanged.

In order to draw a comparative picture of livestock population as between countries and to compute oilcake consumption trends by types of livestocks have been converted into animal units. Animal units are defined in terms of the average amount of protein consumed by different types of livestock based on the U.S. data relating to the 1962-66 average. The protein consumed is calculated in terms of 44 per cent protein content oilcake. To convert cattle on farms (dairy, calves, range stock, feeder cattle) to animal units, the total number of cattle on farms is multiplied by 0.5. Hogs on farms are converted into animal units by multiplying 40 of hogs by 0.5. Laying hens are converted into animal units by dividing dozens of eggs produced by 140. Poultry broilers produced for meat are converted into animal units by dividing pounds of broiler meat produced by 224. The net result expresses the relative importance of each

category of livestock production in common terms, allowing for aggregation and inter-country comparisons. Each animal unit as defined here, consumes the same amount of oilcake (in terms of 44 percent protein content) regardless of its type, that is, cattle, hogs, poultry. These ratios are entirely based on the U.S. experience during the period 1962-66. It must be noted that the U.S. experience is not necessarily the optimum standard for all countries. The optimum standard depends primarily on relative prices of other animal feedstuffs, labour and capital costs, managerial efficiency, etc. The U.S. experience has been chosen as standard because adequate data are available in the case of this country only.

Sources of Data:

To the extent of possible data are taken from published sources. The single standard publication which has been used extensively is the Oilworld (Semi-Annual, Annual, Quarterly and Weekly Issues) published by ISTA (Internationale Statische Agrar information) Mielke and Co., Hamburg - Hamburg, Data on production of oilseeds and trade in oilseeds. When such trade data are not available in ISTA, information called has been from the Commonwealth Economic Committee publications: Vegetable Oil and Oilseeds and the Tropical Products Quarterly(Intelligence Services).Data on livestock are taken mainly from Meat (Annual Numbers) and

Dairy Produce (Annual Numbers), both published by the Commonwealth Economic Committee. Also, this Committee's Intelligence Bulletin (Dairy Produce and Meat Monthly) is used. The U.S. Dept. of Agriculture, Foreign Agriculture Circulars and the Economic Research Service, publications have been used extensively i.e. (1) Fats and Oils Situation (2) Feed Situation, etc. A number of studies prepared for individual countries by Governments and other research organisations have been used. The F.A. O's publications have been used to supplement the main sources of information. Further, These data are supplemented by information supplied by the various Indian Embassies or Trade Commissions.

Symbols and Abbreviations:

u/ Denotes unshelled

s/ Shelled

( ) Figures in parenthesis are estimates

\- data not available or nil

Neg. indicates negligible

C Denotes assumed constant as in previous year.

Net availability of oilseeds and/or oilcakes in some cases have been shown as negative. This is due to stock fluctuations which could not be accounted for while preparing these tables.

EEC European Economic Community (i.e. W. Germany, France, Italy, Netherlands, Belgium and Luxemburg).

Other Western Europe : countries are as specified.

Oilcake consumption by animal units are expressed in terms of 44 per cent protein content

Units. All data are given in terms of tonnes (metric tons) unless otherwise specified.

The Supply-distribution tables for different countries or regions are arranged in the manner indicated below:

Table A.	Production of Oilseeds
B.	Imports of Oilseeds
C.	Exports of Oilseeds
D.	Oilseeds Available for Crushing
E.	Oilcake Equivalent of Seeds Available for Crushing
F.	Imports of Oilcakes & Meals.
G.	Exports of Oilcakes & Meals.
H.	Net Availability of Oilcakes & Meals and Net Availability of Fishmeal
I.	Raw Protein Equivalent of Oilcakes & Meal
J.	Cattle & Hogs on Farms, Production of Eggs and Poultry Meat.
K.	High Protein Meal consuming Animal units
L.	Apparent consumption of Oilcake Protein per Animal Unit.

SUPPLY-DISTRIBUTION

1. WEST EUROPE

WEST EUROPE

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	193	213	224	193	203	198	198	198
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	1544	2214	286	1991	1707	1751	1881	1331
Sunflowerseed	141	201	311	501	331	241	271	291
Rape/Mustard	2584	3692	5194	4023	6273	7271	5831	8227
Linseed	813	783	864	762	883	859	933	832
Sesamum	10	10	10	10	10	10	10	10
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	5285	7113	6889	7480	9407	10330	9124	10889

WEST EUROPE

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	196
Groundnut	7867	10009	10882	11127	9717	9610	10472	103
Soyabean	26925	21233	27894	27546	34129	35907	43850	476
Cottonseed	1402	1300	2144	2052	1148	1147	528	4
Sunflowerseed	832	1249	700	1086	1084	1054	1580	22
Rape/Mustard	1004	1440	1830	1664	1298	2954	3840	364
Linseed	4288	4230	3636	3164	4255	3873	5167	391
Sesamum	437	335	447	462	367	410	510	44
Palm Kernel	6592	6228	6021	5889	5981	5589	5204	302
Copra	8025	8446	6854	7365	7735	7325	8398	688
Total	57372	54470	60408	60355	65714	67869	79549	7862

WEST EUROPE

TABLE - C: EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	10	10	30	30	30	46	4	4
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	10	142	4	53	30
Rape/Mustard	622	785	1263	1651	2329	2489	1874	1848
Linseed	152	203	162	273	274	372	289	309
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	784	998	1455	1964	2775	2911	2220	2191

WEST EUROPE

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	7991	10147	11008	11231	9828	9702	10606	10494
Soyabean	26925	21233	27894	27546	34129	35907	43850	47637
Cottonseed	2946	3514	2430	4043	2855	2898	2409	1818
Sunflowerseed	973	1450	1011	1577	1273	1291	1798	2487
Rape/Mustard	2966	4347	5761	4036	5242	7736	7797	10020
Linseed	4949	4810	4338	3653	4864	4360	5811	4441
Sesamum	447	345	457	472	377	420	520	450
Palm Kernel	6592	6228	6021	5889	5981	5589	5204	3025
Copra	8025	8446	6854	7365	7735	7325	8395	6886
Total	61814	60520	65774	65812	72282	75228	86393	87258

Source : Derived from Tables - A, B & C.

WEST EUROPE

TABLE - E : OILCAKE EQUIVALENT OF OILSEEDS CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	4472	5678	6159	6284	5497	5428	5934	5871
Soyabean	21267	16768	22031	21757	26956	28362	34636	37626
Cottonseed	1236	1474	1018	1696	1197	1216	1011	763
Sunflowerseed	649	968	673	1053	849	861	1201	1664
Rape/Mustard	1627	2387	3165	2216	2880	4249	4284	5507
Linseed	3162	3071	2769	2333	3106	2784	3715	2837
Sesamum	231	178	235	243	194	216	268	232
Palm Kernel	3425	3234	3128	3057	3105	2901	2703	1569
Copra	2804	2951	2394	2572	2704	2559	2935	2404
Total	38873	36709	41572	41211	46488	48576	56687	58473

Source : Derived from Table - D.

WEST EUROPE

TABLE - F : IMPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	196
Groundnut	8422	10135	11981	11570	10701	10782	10261	1010
Soyabean	9524	7806	13919	16639	18723	22045	27992	2773
Cottonseed	8154	7795	8959	9759	9483	11588	11952	1005
Sunflowerseed	3986	4584	4628	3475	2440	3252	6106	635
Rape/Mustard	746	949	1071	1095	1029	1155	2301	202
Linseed	5061	5289	6687	7019	7264	7755	6411	524
Sesamum	204	398	323	332	294	262	381	21
Palm Kernel	1857	1833	2131	1656	2231	2268	2611	216
Copra	2306	2674	2810	3532	4636	4695	5111	516
Total	42584	44197	55676	58274	59916	68147	78333	7305

WEST EUROPE

TABLE - G : EXPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	364	584	575	693	678	464	717	577
Soyabean	3899	4040	4005	4004	4718	4807	4532	6288
Cottonseed	54	69	106	122	127	159	180	152
Sunflowerseed	28	75	221	109	300	166	134	213
Rape/Mustard	259	430	859	831	690	1356	1849	1731
Linseed	404	576	329	381	647	694	622	475
Sesamum	1	2	-	-	1	1	1	2
Palm Kernel	853	876	932	667	1052	868	756	426
Copra	561	679	597	605	679	702	735	696
Others	408	717	931	548	640	712	796	603
Total	6831	8048	8555	7960	9532	9929	10322	11163

WEST EUROPE

TABLE - H : NET AVAILABILITY OF OILCAKES & MEALS AND NET AVAILABILITY OF FISH MEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	196
Groundnut	12530	15229	17565	17161	15520	15746	15478	1539
Soyabean	26892	20534	31945	34392	40961	45600	58096	5907
Cottonseed	9336	9200	9871	11333	10553	12645	12783	1070
Sunflowerseed	4607	5477	5080	4419	2989	3947	7173	780
Rape/Mustard	2114	2906	3377	2480	3219	4048	4736	579
Linseed	7819	7784	9127	8971	9723	9845	9504	761
Sesamum	434	574	558	575	487	477	648	44
Palm Kernel	4429	4191	4327	4046	4284	4301	4558	330
Copra	4549	4946	4607	5499	6661	6552	7311	687
Others	1916	2017	2236	2649	2475	3633	4411	336
Total	74626	72858	88693	91525	96872	106794	124698	120363
Fish Meal	7867	9750	11931	12000	14741	15734	15494	16679

Source : Derived from Tables - E, F & G.

WEST EUROPE

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES & MEALS
(INCLUDING FISH MEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	6514	7917	9133	8921	8068	8186	8046	8004
Soyabean	12368	9443	14693	15817	18840	20970	26718	27167
Cottonseed	3824	3769	4386	4643	4323	5181	5237	4382
Sunflowerseed	1702	2022	1876	1632	1103	1458	2651	2884
Rape/Mustard	759	1044	1214	889	1157	1456	1703	2084
Linseed	2812	2799	3284	3225	3498	3542	3419	2737
Sesamum	172	229	222	228	193	188	257	176
Palm Kernel	795	751	777	725	769	771	817	594
Copra	997	1085	1009	1207	1462	1437	1605	1510
Fish Meal	5113	6338	7758	7799	9582	10183	10071	10840
Others	707	747	826	979	914	1342	1630	1243
Total	35763	36144	45178	46065	49909	54714	62154	61621

WEST EUROPE

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960 - 66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	79.6	81.6	83.0	80.5
Hogs on Farms	(million)	55.7	58.6	61.6	60.6
Eggs production	(million doz)	4612.0	4849.0	5000.0	5303.0
Poultry meat	(million lbs.)	2891.2	3231.2	3522.1	3788.7

	Unit	1964	1965	1966
Cattle on farms	(million)	80.5	82.4	84.3
Hogs on farms	(million)	63.7	65.8	64.2
Eggs production	(million doz.)	5523.0	5378.0	5644.0
Poultry meat production	(million) lbs)	4231.8	4535.4	4726.4

WEST EUROPE

TABLE - K: HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS

	Unit	1960	1961	1962	1963
Cattle	(million)	39.5	40.5	41.1	40.0
Hogs	(million)	27.4	27.7	30.5	29.9
Eggs	(million doz.)	32.8	34.4	35.5	37.8
Poultry meat	(million lbs.)	12.9	13.3	15.6	16.8
Total		112.6	116.9	122.7	124.5

	Unit	1964	1965	1966
Cattle	(million)	39.9	40.9	41.9
Hogs	(million)	31.6	32.6	31.9
Eggs	(million doz.)	39.2	38.5	40.1
Poultry meat	(million lbs.)	18.6	20.2	20.7
Total		129.4	132.2	134.6

WEST EUROPE

TABLE - L: APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	3576.3	3614.4	4517.8	4606.5
Protein consumption	(million lbs.)	7867.9	7951.7	9939.2	10134.4
Protein consuming units	(million)	112.6	116.9	122.7	124.5
Consumption per unit	(lbs.)	70	68	81	81
Oilcake*consumption per unit	(lbs.)	159	154	184	184

	Unit	1964	1965	1966
Protein consumption	('000 tonnes)	4990.9	5471.4	6215.4
Protein consumption	(million lbs.)	10980.0	12037.1	13673.9
Protein consuming unit	(million)	129.4	132.2	134.6
Consumption per unit	(lbs.)	85	91	102
Oilcake*consumption per unit	(lbs.)	193	207	231

* In terms of 44 percent of protein content.

SUPPLY-DISTRIBUTION

2. EUROPEAN ECONOMIC COMMUNITY

EUROPEAN ECONOMI COMMUNITY

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut u/	122	132	122	112	112	112	112	112
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	91	91	61	91	81	81	81	81
Sunflowerseed	121	181	291	481	311	221	251	271
Rape/Mustard	1702	2001	2942	2461	3651	4611	4341	5427
Linseed	721	691	781	721	831	840	915	814
Sesamum	10	10	10	10	10	10	10	10
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	2767	3106	4207	3876	4996	5875	5710	6715

EUROPEAN ECONOMIC COMMUNITY

TABLE B: IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	5959	7390	7643	8265	7148	7600	8606	8262
Soyabean	18793	15462	20353	19741	25134	23798	29415	30085
Cottonseed	10	10	254	264	10	94	41	-
Sunflowerseed	792	1209	650	1016	1034	1044	1558	2205
Rape/Mustard	893	1279	1669	1543	1096	2546	3289	3143
Linseed	2281	2230	1859	1657	2346	2067	3292	2383
Sesamum	295	244	254	396	335	391	478	418
Palm Kernel	3963	3771	3687	3555	3789	3348	3303	1888
Copra	5358	5547	4851	5071	5712	5215	6192	5097
Total	38344	37142	41220	41508	46604	46103	56174	53481
Castorseed	446	345	423	386	436	429	491	457

EUROPEAN ECONOMIC COMMUNITY

TABLE C: EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	10	10	30	30	30	46	4	4
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	10	142	4	53	30
Rape/Mustard	222	445	863	841	1349	1387	1390	1433
Linseed	152	203	162	273	274	372	289	309
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Total	384	658	1055	1154	1795	1809	1736	1776

EUROPEAN ECONOMIC COMMUNITY

TABLE D: OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	6034	7472	7698	8313	7196	7632	8680	8336
Soyabean	18793	15462	20353	19741	25134	23798	29415	30085
Cottonseed	101	101	315	355	91	175	122	81
Sunflowerseed	913	1390	941	1487	1203	1261	1756	2446
Rape/Mustard	2373	2835	3748	3163	3398	5770	6240	7137
Linseed	2850	2718	2478	2105	2903	2535	3918	2888
Sesamum	305	254	264	406	345	401	488	428
Palm Kernel	3963	3771	3687	3555	3789	3348	3303	1888
Copra	5358	5547	4851	5071	5712	5215	6192	5097
Total	40690	39550	44335	44196	49771	50135	60114	58386
Castorseed	446	345	426	386	436	429	491	457

Source: Derived from Table A, B & C

EUROPEAN ECONOMIC COMMUNITY

TABLE E: OILCAKE EQUIVALENT OF OILSEEDS CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	3378	4182	4309	4654	4027	4272	4859	4666
Soyabean	14844	12213	16077	15594	19853	18799	23236	23764
Cottonseed	42	42	131	148	38	73	51	34
Sunflowerseed	610	929	628	994	804	842	1174	1637
Rape/Mustard	1303	1557	2059	1738	1837	3171	3430	3923
Linseed	1822	1737	1583	1345	1855	1620	2507	1846
Sesamum	158	131	136	210	178	207	252	221
Palm Kernel	2059	1958	1916	1846	1967	1738	1716	980
Copra	1873	1939	1695	1772	1997	1823	2166	1781
Total	26089	24688	28534	28301	32586	32545	39391	38852

Source: Derived from Table D

EUROPEAN ECONOMIC COMMUNITY

TABLE F: IMPORTS OF OILCAKE

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	1755	2472	3716	3757	3270	3565	4001	4442
Soyabean	3510	3563	7555	8194	10200	13410	18290	20131
Cottonseed	1657	1700	2562	2879	2580	3348	3677	3329
Sunflowerseed	1452	1891	2221	1935	1304	1754	3498	3465
Rape/Mustard	542	626	908	954	858	1003	1353	1160
Linseed	3913	4365	5821	6122	6401	6749	5661	4655
Sesamum	187	380	306	317	279	244	303	126
Palm Kernel	1857	1833	2131	1656	2231	2268	2611	2164
Copra	1664	1945	2167	2774	3449	3574	4280	4200
Others	1509	1906	2105	2203	2076	2777	3257	2165
Total	18046	20681	29492	30791	32648	38692	46931	45837

EUROPEAN ECONOMIC COMMUNITY

TABLE G: EXPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	355	550	523	685	660	435	703	567
Soyabean	3104	3323	3110	3032	3653	3597	3418	4398
Cottonseed	32	47	41	38	23	7	29	11
Sunflowerseed	26	75	212	109	300	166	134	209
Rape/Mustard	253	430	856	831	686	1356	1832	1717
Linseed	397	570	319	376	641	687	595	464
Sesamum	1	2	-	-	1	1	1	2
Palm Kernel	853	876	932	667	1052	868	756	426
Copra	469	499	395	442	459	500	588	534
Others	381	682	863	469	533	615	712	526
Total	5871	7054	7251	6649	8008	8232	8768	8854

EUROPEAN ECONOMIC COMMUNITY

TABLE H: NET AVAILABILITY OF OILCAKES & MEALS AND NET AVAILABILITY OF FISHMEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	4778	6104	7502	7726	6637	7402	8157	8541
Soyabean	15250	12453	20522	20756	26400	28612	38108	39497
Cottonseed	1667	1695	2652	2989	2595	3414	3699	3352
Sunflowerseed	2036	2745	2637	2820	1808	2430	4538	4893
Rape/Mustard	1592	1753	2111	1861	2039	2818	2951	3366
Linseed	5338	5532	7085	7091	7615	7682	7573	6037
Sesamum	344	509	442	527	456	450	554	345
Palm Kernel	3063	2915	3115	2835	3146	3138	3571	2718
Copra	3068	3385	3467	4104	4987	4897	5858	5447
Others	1128	1224	1242	1734	1543	2162	2545	1639
Total	38264	38315	50775	52443	57226	63005	77554	75835
Fishmeal	4416	5615	6925	6601	8391	8348	7596	8870

Source: Derived from Table E, F & G

EUROPEAN ECONOMIC COMMUNITY

TABLE I: RAW PROTEIN EQUIVALENT OF OILCAKES & MEALS (INCLUDING FISHMEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	2483	3172	3899	4014	3448	3846	4239	4439
Soyabean	7013	5725	9438	9545	12142	13160	17527	18166
Cottonseed	681	693	1083	1223	1061	1397	1514	1371
Sunflowerseed	751	1012	973	1041	666	897	1677	1808
Rape/Mustard	572	629	758	667	732	1013	1061	1210
Linseed	1919	1988	2549	2549	2739	2763	2724	2171
Sesamum	136	203	176	209	181	178	220	137
Palm Kernel	550	523	560	508	565	563	640	488
Copra	672	742	759	901	1095	1074	1286	1196
Others	416	454	459	641	570	800	941	607
Fishmeal	2870	3650	4501	4290	5454	5426	4937	5765
Total	18063	18791	25155	25588	28653	31117	36766	37358

Source: Supply Distribution Tables, Belgium, West Germany, France, Italy & Netherlands.

EUROPEAN ECONOMIC COMMUNITY

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	48.1	49.5	50.8	49.5
Hogs on farms	(million)	31.4	33.5	34.7	33.9
Eggs production	(million doz)	2615.0	2764.0	2851.0	2936.0
Poultry Meat production	(million lbs)	1765.1	1935.4	2154.8	2354.3

	Unit	1964	1965	1966
Cattle on farms	(million)	49.0	50.3	51.5
Hogs on farms	(million)	36.5	37.0	37.2
Eggs production	(million doz.)	3128.0	3045.0	3242.0
Poultry Meat production	(million lbs)	2672.3	2909.7	2926.2

EURCPEAN ECCNCMIC CCMMUNITY

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS 1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	23.9	24.7	25.3	24.5
Hogs	(million)	15.5	16.6	17.3	16.8
Eggs	(million doz.)	18.7	19.7	20.3	21.0
Poultry Meat	(million lbs)	7.9	7.8	9.5	10.5
Total		66.0	68.8	72.4	72.8

	Unit	1964	1965	1966
Cattle	(million)	24.4	25.0	25.6
Hogs	(million)	18.2	18.3	18.5
Eggs	(million doz)	22.2	21.8	23.1
Poultry Meat	(million lbs)	11.9	12.9	13.4
Total		76.7	78.0	80.6

EUROPEAN ECONOMIC COMMUNITY

TABLE - L: APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	1806.3	1879.1	2515.5	2558.8
Protein consumption	(million lbs.)	3973.9	4134.0	5534.1	5629.4
Protein consuming units	(million)	66.0	68.8	72.4	72.8
Consumption per unit	(lbs.)	60	60	76	77
Oilcake* consumption per unit	(lbs.)	137	136	174	176

	Unit	1964	1965	1966	1967
Protein consumption	('000 tonnes)	2865.3	3111.7	3676.6	3735.8
Protein consumption	(million lbs.)	6303.7	6845.7	8088.5	8218.8
Protein consuming units	(million)	76.7	78.0	80.6	101.9
Consumption per units	(lbs.)	82	88	100	81
Oilcake* consumption per unit	(lbs.)	187	200	228	183

* In terms of 44 percent protein content.

SUPPLY-DISTRIBUTION

3. BELGIUM

BELGIUM

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	190	170	210	200	220	163	134	94
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	190	170	210	200	220	163	134	94

BELGIUM

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	254	599	752	620	732	578	525	443
Soyabean	1351	904	1199	975	1412	1389@	1757@	2336@
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	20	20	10	20	20	25+	23+	24
Rape/Mustard	20	20	41	10	20	9*	19*	21*
Linseed	295	284	315	224	356	263*	545*	418*
Sesamum	41	41	41	61	61	61c	61c	61c
Palm Kernel	234	234	325	203	244	296*	259*	78*
Copra	291@	368@	245@	265@	348@	247@	435@	405@
Total	2506	2470	2928	2378	3193	2868	3624	3786
Castorseed	60	30	71	30	30	23+	28+	25+

+ Foreign Agriculture Circular : U.S. Department of Agriculture

* ISTA Oilworld

@ Data obtained by Indian Embassy.

BELGIUM

TABLE - C : EXPORT OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	102	163	142	213	234	332@	249@	269@
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Total	102	163	142	213	234	332	249	269

@ Data obtained by Indian Embassy.

BELGIUM

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	254	599	752	620	732	578	525	443
Soyabean	1351	904	1199	975	1412	1389	1757	2336
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	20	20	10	20	20	25	23	24
Rape/Mustard	20	20	41	10	20	9	19	21
Linseed	383	291	383	211	342	94	430	243
Sesamum	41	41	41	61	61	61	61	61
Palm Kernel	234	234	325	203	244	296	259	78
Copra	291	368	245	265	348	247	435	405
Total	2594	2477	2996	2365	3179	2699	3509	3611

Source : Derived from Tables - A, B & C.

BELGIUM

TABLE - E : CAKE EQUIVALENT OF OILSEED CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	142	335	421	347	409	323	294	248
Soyabean	1067	714	947	770	1115	1097	1388	1845
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	13	13	6	13	13	16	15	16
Rape/Mustard	11	11	22	5	11	4	10	11
Linseed	245	186	245	135	218	60	275	155
Sesamum	21	21	21	31	31	31	31	31
Palm Kernel	121	121	169	105	126	153	134	40
Copra	101	128	85	92	121	86	152	141
Total	1721	1529	1916	1498	2044	1770	2299	2487

Source : Derived From Table - D.

BELGIUM

TABLE : F : IMPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	220	370	425	404	350	341	427	425@
Soyabean	768	520	928	740	1073	1137	1193	1579@
Cottonseed	287	270	340	292	326	475	495	543@
Sunflowerseed	142	183	210	135	127	274	553	575
Rape/Mustard	69	166	187	171	174	249	366	307
Linseed	280	267	273	251	309	311+	195	171@
Sesamum	78	186	124	128	131	144	182	73@
Palm Kernel	10	2	-	5	9	5	2	6
Copra	86	88	96	65	163	112	96	110
Others	173	386	497	525	582	620	655	448
Total	2113	2438	3080	2716	3244	3668	4164	4237

@ Data obtained by Indian Embassy

+ Foreign Agriculture Ciruclar , U.S. Department of Agriculture

BELGIUM

TABLE - G : EXPORTS OF OILCAKE & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	30	66	121	103	88	96	68	36
Soyabean	85	122	141	156	213	266	373	673
Cottonseed	5	1	4	-	1	1	1	-
Sunflowerseed	2	1	17	7	-	-	-	-
Rape/Mustard	89	10	128	94	99	144	148	103
Linseed	-	1	1	-	-	-	5	-
Sesamum	1	2	-	-	1	1	1	2
Palm Kernel	69	45	127	50	105	100	96	15
Copra	11	32	21	6	15	9	17	16
Others	68	394	359	33	23	25	23	18
Total	360	674	919	449	545	642	732	863

BELGIUM

TABLE - H : NET AVAILABILITY OF OILCAKES & MEALS AND NET AVAILABILITY OF FISHMEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	332	639	725	648	671	569	653	637
Soyabean	1750	1112	1734	1354	1975	1988	2208	2751
Cottonseed	282	269	336	292	325	474	494	543
Sunflowerseed	153	195	199	141	140	290	568	591
Rape/Mustard	-9	167	81	82	86	109	228	215
Linseed	525	452	517	386	527	371	465	326
Sesamum	98	205	145	159	161	174	212	102
Palm Kernel	62	78	42	60	30	58	40	31
Copra	176	184	160	151	269	189	231	235
Others	105	-8	138	492	559	595	632	430
Total	3474	3293	4077	3765	4743	4796	5731	5861
Fish Meal	498	399	570	514	690	699	728	799

Source : Derived from Table - E, F & G.

BELGIUM

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES & MEAL (INCLUDING MEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	172	332	377	336	348	295	339	331
Soyabean	805	511	797	622	908	905	1015	1265
Cottonseed	115	110	137	119	133	194	202	222
Sunflowerseed	56	72	73	52	51	107	210	218
Rape/Mustard	-3	60	29	29	30	39	82	77
Linseed	189	162	186	138	189	133	167	117
Sesamum	39	82	58	63	64	69	84	40
Palm Kernel	11	14	7	10	5	10	7	5
Copra	38	40	35	33	59	41	50	51
Others	38	-2	51	182	206	220	223	159
Fish Meal	327	259	370	334	448	454	473	519
Total	1787	1640	2120	1918	2441	2467	2862	3009

Source : Derived from Table - H.

BELGIUM

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	2.7	2.7	2.8	2.8
Hogs on farms	(million)	1.7	1.7	2.0	1.8
Eggs production	(million doz)	227.0	258.0	243.0	248.0
Poultry meat production	(million lbs)	132.2	156.8	183.7	185.9

	Unit	1964	1965	1966
Cattle on farms	(million)	2.7	2.7	2.7[c]
Hogs on farms	(million)	1.8	1.8	1.9
Eggs production	(million doz)	268.0	244.0	271.0
Poultry Meat production	(million lbs)	194.9	210.6	226.2

Source : Commonwealth Economic Committee, Meat, Dairy Produce H.M.S.O, London (Various Issues).

BELGIUM

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS 1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	1.3	1.3	1.4	1.4
Hogs	(million)	0.8	0.8	1.0	0.9
Eggs	(million doz)	1.6	1.8	1.7	1.8
Poultry Meat	(million lbs)	0.6	0.7	0.8	0.9
Total		4.3	4.6	4.9	4.9

	Unit	1964	1965	1966
Cattle	(million)	1.3	1.3	1.3
Hogs	(million)	0.9	0.9	0.9
Eggs	(million doz.)	1.9	1.8	1.9
Poultry Meat	(million lbs)	0.9	0.9	1.0
Total		5.0	4.9	5.1

BELGIU

TABLE - L : APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Protein Consumption	('000 tonnes)	178.7	164.0	212.0	191.8
Protein Consumption	(million lbs.)	393.1	360.8	466.4	422.0
Protein consuming units	(million)	4.3	4.6	4.9	4.9
Consumption per unit	(lbs.)	91	79	95	86
Oilcake* consumption per unit	(lbs.)	208	179	216	196

	Unit	1964	1965	1966
Protein consumption	('000 tonnes)	244.1	246.7	286.2
Protein consumption	(million lbs.)	537.0	542.7	629.6
Protein consuming units	(million)	5.0	4.9	5.1
Consumption per unit	(lbs.)	107	111	123
Oilcake* consumption per unit	(lbs.)	244	252	281

Source : Belgium Supply - Distribution Tables

* In terms of 44% protein content.

SUPPLY-DISTRIBUTION

4. FRANCE

FRANCE

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	60	120	250	440	270	180	210	230
Rape/Mustard	830	1070	1580	1330	2380	3350	3170	4030
Linseed	230	270	260	240	210	278+	390+	360+
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	1120	1460	2090	2010	2860	3808	3770	4620

+ Foreign Agriculture Circular - U.S. Department of Agriculture.

FRANCE

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	4348	4897	4542	5273	4318	5063@	5334@	5168@
Soyabean	1951	813	1433	1433	1920	1085@	1176@	1364@
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	102	51	38*	53*	18*	27*
Rape/Mustard	396	335	152	112	71	45@	180@	143@
Linseed	803	792	610	579	772	626@	668@	187@
Sesamum	-	1	1	1	1	18@	10@	-
Palm Kernel	955	823	823	792	894	663*	495*	462*
Copra	864	894	965	864	1006	956	967	859
Others	-	-	-	-	-	-	-	-
Total	9317	8564	8637	9114	9029	8509	8848	8210

* ISTA Oilworld

@ Data obtained by Indian Embassy.

FRANCE

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	10	10	30	30	30	46@	4@	4@
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	10	142	4+	53+	30
Rape/Mustard	112	315	823	711	1199	1263+	1314+	1357
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	122	325	853	751	1371	1313	1371	1391

+ Foreign Agriculture Circular : U.S. Department of Agriculture.

@ Data obtained by Indian Embassy.

FRANCE

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	4338	4887	4512	5243	4288	5017	5330	5164
Soyabean	1951	813	1433	1433	1920	1085	1176	1364
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	60	120	352	481	166	229	175	227
Rape/Mustard	1114	1090	909	731	1252	2132	2036	2316
Linseed	1033	1062	870	819	982	904	1058	547
Sesamum	-	10	10	10	10	18	10	-
Palm Kernel	955	823	823	792	894	663	495	462
Copra	864	894	965	864	1006	956	967	859
Total	10315	9699	9874	10373	10518	11004	11247	11439

Source : Derived from Table : A, B & C.

FRANCE

TABLE - E : OILCAKE EQUIVALENT OF OILSEED CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	2429	2736	2526	2936	2401	2809	2984	2891
Soyabean	1541	642	1132	1132	1516	857	929	1077
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	40	80	235	322	111	153	117	152
Rape/Mustard	612	599	499	402	688	1172	1119	1548
Linseed	661	679	556	524	628	578	677	350
Sesamum	-	5	5	5	5	9	5	-
Palm Kernel	496	427	427	411	464	344	257	240
Copra	302	312	337	302	352	334	338	300
Total	6081	5480	5717	6034	6165	6256	6426	6558

Source : Derived from Table D.

FRANCE

TABLE - F : IMPORTS OF OILCAKE & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	671	784	1914	1778	1462	1907	2087	2249
Soyabean	1000	1555	3061	3255	3944	4856	6149	6259
Cottonseed	205	213	451	403	284	396	402	461
Sunflowerseed	160	238	460	280	232	275	585	614
Rape/Mustard	18	15	106	169	52	56	27	49
Linseed	857	1007	1289	1488	1525	1426	1137	1376
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	24	8	27	24	12	84	131	80
Copra	54	41	62	84	51	25	52	38
Others	32	85	190	61	25	89	25	15
Total	3021	3946	7560	7542	7587	9114	10595	11141

FRANCE

TABLE - G : EXPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	207	316	110	355	350	144	355	222
Soyabean	92	21	36	61	38	74	33	35
Cottonseed	-	1	-	1	-	-	2	3
Sunflowerseed	-	10	1	4	3	5	1	-
Rape/Mustard	102	200	70	51	96	308	593	402
Linseed	191	228	95	115	203	90	66	18
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	188	187	74	66	233	106	34	2
Copra	52	43	13	18	104	37	30	6
Others	86	138	90	47	170	194	146	83
Total	918	1144	489	718	1197	958	1260	771

FRANCE

TABLE - H : NET AVAILABILITY OF OILCAKES & MEALS AND NET AVAILABILITY OF FISHMEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	2893	3204	4330	4359	3513	4572	4716	4918
Soyabean	2449	2176	4157	4326	5422	5639	7045	7301
Cottonseed	205	212	451	402	284	396	400	458
Sunflowerseed	200	308	694	598	340	423	701	766
Rape/Mustard	528	414	535	520	644	920	553	1195
Linseed	1327	1458	1750	1897	1950	1914	1748	1708
Sesamum	-	5	5	5	5	9	5	-
Palm Kernel	332	248	380	369	243	322	354	318
Copra	304	310	386	368	299	322	360	332
Others	-54	-53	100	14	-145	-105	-121	-68
Total	8184	8282	12788	12858	12555	14412	15761	16928
Fish Meal	319	603	825	765	1048	990	912	991

Source : Derived from Table E, F & G.

FRANCE

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKE & MEALS
(INCLUDING FISHMEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	1504	1666	2251	2266	1826	2377	2452	2557
Soyabean	1126	1000	1912	1989	2494	2593	3240	3358
Cottonseed	84	86	184	164	116	162	164	187
Sunflowerseed	74	113	256	221	125	156	259	283
Rape/Mustard	190	149	192	187	231	331	199	430
Linseed	477	524	630	682	702	689	629	614
Sesamum	-	2	2	2	2	3	2	-
Palm Kernel	59	44	68	66	43	57	63	57
Copra	66	68	84	80	65	70	79	73
Others	-19	-19	37	5	-53	-38	-44	-25
Fish Meal	207	392	536	497	681	644	593	644
Total	3768	4025	6152	6159	6232	7044	7636	8178

FRANCE

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	19.4	20.0	20.7	20.1
Hogs on farms	(million)	8.5	8.9	9.1	9.0
Eggs production	(million doz)	708.0	746.0	769.0	780.0
Poultry meat production	(million lbs)	869.1	925.1	1014.7	1102.1

	Unit	1964	1965	1966
Cattle on farms	(million)	20.2	20.6	21.0
Hogs on farms	(million)	9.0	9.2	9.2
Eggs production	(million doz)	811.0	768.0	792.0 *
Poultry meat production	(million lbs)	1211.8	1234.2	1234.2 c

* Provisional.

FRANCE

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS 1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	9.7	10.0	10.3	10.0
Hogs	(million)	4.2	4.4	4.5	4.5
Eggs	(million doz)	5.1	5.3	5.5	5.6
Poultry Meat	(million lbs)	3.9	4.1	4.5	4.9
Total		22.9	23.8	24.8	25.0

	Unit	1964	1965	1966
Cattle	(million)	10.1	10.3	10.5
Hogs	(million)	4.5	4.6	4.6
Eggs	(million doz)	5.7	5.5	5.6
Poultry Meat	(million lbs)	5.4	5.5	5.5
Total		25.7	25.9	26.2

Source : Annexure Table I. (See note on methodology for converting livestock into high protein consuming animal units in chapter I, Volume II)

FRANCE

TABLE - L : APPARENT CONSUMPTION OF OILCAKES PROTEIN PER ANIMAL UNIT 1960-66

Pro	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	376.8	402.5	615.2	615.9
Protein consuming unit	(million lbs.)	829.0	885.5	1353.4	1358.0
Protein consuming units	(million)	22.9	23.8	24.8	25.0
Consumption per unit	(lbs.)	36	37	54	54
Oilcake* consumption per unit	(lbs.)	82	84	123	123

	Unit	1960	1965	1966
Protein consumption	('000 tonnes)	623.2	704.4	763.6
Protein consumption	(million lbs)	1371.0	1549.7	1679.9
Protein consumin g units	(million)	25.7	25.9	26.2
Consumption per unit	(lbs.)	54	60	65
Oilcake* consumption per unit	(lbs.)	120	136	148

Source : 1) France : Supply - Distribution Table I
2) Annexure Table 2.
* : In terms of 44% protein content.

SUPPLY-DISTRIBUTION

5. ITALY

ITALY

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut u/	122	132	122	112	112	112[c]	112[c]	112[c]
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	91	91	61	91	81	81[c]	81[c]	81[c]
Sunflowerseed	61	61	41	41	41	41[c]	41[c]	41[c]
Rape/Mustard	102	91	102	81	81	91	101	51
Linseed	61	61	51	51	41	39[+]	31[+]	-
Sesamum	10	10	10	10	10	10[c]	10[c]	10[c]
Copra	-	-	-	-	-	-	-	-
Total	447	446	387	386	366	374	376	295

+ Foreign Agriculture circular : U.S. Department of Agriculture

ITALY

TABLE - B: IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	569	732	813	1778	1300	1015	1642	1332
Soyabean	2134	2042	3373	3352	3251	4495	5301	5943
Cottonseed	10	-	10	-	-	-	-	-
Sunflowerseed	538	935	325	620	671	630	1229	1915
Rape/Mustard	396	650	1031	914	650	1323	2098	2215
Linseed	152	132	142	41	41	49+	63+	84+
Sesamum	254	193	203	325	264	312	407	357
Copra	224	193	234	274	244	227	220	194
Total	4277	4877	6131	7304	6421	8051	10960	12040
Castorseed	102	91	91	112	81	91	124	122

+ Foreign Agriculture circular: U.S.Department of Agriculture.

ITALY

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-

ITALY

TABLE - D: OILCAKES AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	654	824	898	1856	1378	1093	1720	1410
Soyabean	2134	2042	3373	3352	3251	4495	5301	5943
Cottonseed	101	91	71	91	81	81	81	81
Sunflowerseed	599	996	366	661	712	671	1270	1956
Rape/Mustard	498	741	1133	995	731	1414	2199	2266
Linseed	213	193	193	92	82	88	94	84
Sesamum	264	203	213	335	274	322	417	367
Copra	224	193	234	274	244	227	220	194
Total	4687	5283	6481	7656	6753	8391	11302	12301
Castorseed	102	91	91	112	81	91	124	122

Source: Derived from Table: A, B & C.

ITALY

TABLE - E: OILCAKE EQUIVALENT OF OILSEEDS CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	366	461	502	1039	771	612	963	789
Soyabean	1685	1613	2664	2648	2568	3551	4187	4694
Cottonseed	42	38	29	38	34	34	34	34
Sunflowerseed	401	667	245	442	477	449	850	1310
Rape/Mustard	273	407	623	547	402	777	1209	1246
Linseed	136	123	123	58	52	56	60	53
Sesamum	137	105	110	174	142	167	216	190
Copra	78	67	81	95	85	79	77	67
Total	3118	3481	4377	5041	4531	5725	7596	8383

Source: Derived from D.

ITALY

TABLE - F: IMPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	62	15	1	9	25	1
Soyabean	-	-	9	830	523	1090	1268	1696
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	1	20	2	-	12	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	306	600	244	354	431	384
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	7	30	6	4	5	3
Others	-	-	32	15	11	6	43	100
Total	-	-	417	1510	787	1463	1784	2184

ITALY

TABLE - G: EXPORTS OF OILCAKE & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	62	135	146	72	162	132
Soyabean	-	-	184	90	38	71	97	77
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	180	95	291	146	123	186
Rape/Mustard	-	-	433	300	252	523	667	828
Linseed	-	-	-	-	-	-	1	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	2	2	9	22	19	13
Others	-	-	215	158	110	245	396	262
Total	-	-	1076	780	846	1079	1465	1498

ITALY

TABLE - H: NET AVAILABILITY OF OILCAKES & MEALS
NET AVAILABILITY OF FISHMEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	366	461	502	919	626	549	826	658
Soyabean	1685	1613	2489	3388	3053	4570	5358	6313
Cottonseed	42	38	29	38	34	34	34	34
Sunflowerseed	401	667	66	367	188	303	739	1124
Rape/Mustard	273	407	190	247	150	254	542	418
Linseed	136	123	429	658	296	410	490	437
Sesamum	137	105	110	174	142	167	216	190
Palm Kernel	-	-	-	-	-	-	-	-
Copra	78	67	86	123	82	61	63	57
Others	-	-	-183	-143	-99	-239	-353	-162
Total	3118	3481	3718	5771	4472	6109	7915	9069
Fishmeal	306	311	486	612	914	892	963	1026

Source: Derived from Table E, F & G.

ITALY

TABLE - I: RAW PROTEIN EQUIVALENT OF OILCAKES AND MEALS (INCLUDING FISHMEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	190	239	261	477	325	285	429	342
Soyabean	775	741	1144	558	1404	2102	2464	2903
Cottonseed	17	15	11	15	13	13	13	13
Sunflowerseed	148	246	24	135	69	112	273	415
Rape/Mustard	98	146	68	88	54	91	195	150
Linseed	48	44	154	236	106	147	176	157
Sesamum	54	42	44	69	56	66	86	76
Palm Kernel	-	-	-	-	-	-	-	-
Copra	17	14	18	27	18	13	13	12
Others	-	-	-67	-52	-36	-88	-130	-59
Fishmeal	199	202	316	398	594	580	626	667
Total	1546	1689	1973	2951	2603	3321	4145	4676

Source: Derived from Table - H.

ITALY

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	9.4	9.8	9.5	9.2
Hogs on farms	(million)	4.1	4.4	4.6	4.7
Eggs production	(million doz)	537.0	558.0	573.0	630.0
Poultry Meat production	(million lbs)	380.8	436.8	499.5	580.2

	Unit	1964	1965	1966
Cattle on farms	(million)	9.0	9.3	9.6
Hogs on farms	(million)	5.0	5.1	5.4
Eggs production	(million doz)	691.0	688.0	758.0
Poultry Meat production	(million lbs)	683.2	810.9	810.9[c]

Source : Commonwealth Economic Committee, Meat; Dairy produce H.M.S.O, London.

ITALY

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Cattle	(Million)	4.7	4.9	4.7	4.6
Hogs	(million)	2.0	2.2	2.3	2.3
Eggs	(million doz)	3.8	4.0	4.1	4.5
Poultry meat	(million lbs)	1.7	1.9	2.2	2.6
Total		12.2	13.0	13.3	14.0

	Unit	1964	1965	1966
Cattle	(million)	4.5	4.6	4.8
Hogs	(million)	2.5	2.5	2.7
Eggs	(million doz.)	4.9	4.9	5.4
Poultry Meat	(million lbs)	3.0	3.6	3.6
Total		15.9	15.6	16.5

ITALY

TABLE - L : APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	154.6	168.9	197.3	295.1
Protein consumption	(million lbs.)	340.1	371.6	434.1	649.2
Protein consuming units	(million)	12.2	13.0	13.3	14.0
Consumption per unit	(lbs.)	28	29	33	46
Oilcake* consumption per unit	(lbs.)	64	66	74	105

	Unit	1964	1965	1966
Protein consumption	('000 tonnes)	260.3	332.1	414.5
Protein consumption	(million lbs.)	572.7	730.6	911.9
Protein consuming units	(million)	14.0	15.6	16.5
Consumption per unit	(lbs.)	41	47	55
Oilcake* consumption per unit	(lbs.)	93	106	126

* In terms of 44 percent protein content.

SUPPLY-DISTRIBUTION

6. GERMANY F. R.

GERMANY F.R.

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	690	740	1160	950	1090	1070	970	1246
Linseed	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	690	740	1160	950	1090	1070	970	1246

GERMANY F.R.

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	518	752	1036	234	428	524	715	919
Soyabean	9977	9073	10678	10861	14041	12919	16901	16012
Cottonseed	-	10	244	264	10	94	41	-
Sunflowerseed	224	234	203	305	295	326	278	229
Rape/Mustard	21	244	315	457	325	1009	912	684
Linseed	81	102	112	203	417	429	836	564
Palm Kernel	1554	1284	1239	1290	1311	1259	1239	688
Copra	2499	2492	2327	2408	2794	2425	2890	2379
Total	14874	14191	16154	16022	19621	18985	23812	21745
Castorseed	284	224	264	244	325	315	339	310

GERMANY F.R.

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	10	-	-	30	44	36	36
Linseed	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Total	-	10	-	-	30	44	36	36

GERMANY F.R.

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	518	752	1036	234	428	524	715	919
Soyabean	9977	9073	10678	10861	18041	12919	16901	16012
Cottonseed	-	10	244	264	10	94	41	-
Sunflowerseed	224	234	203	305	295	326	278	229
Rape/Mustard	711	974	1475	1407	1385	2035	1846	1894
Linseed	81	102	112	203	417	429	836	564
Palm Kernel	1554	1284	1239	1290	1311	1259	1239	688
Copra	2499	2492	2327	2408	2794	2425	2890	2379
Total	15564	14921	17314	16972	20681	20011	24746	22685
Castorseed	284	224	264	244	325	315	339	310

Source : Derived from Table A, B & C.

GERMANY F.R.

TABLE - E : OILCAKE EQUIVALENT OF OILSEEDS CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	290	421	580	131	239	293	400	514
Soyabean	7381	7167	8435	8580	11092	10206	13351	12649
Cottonseed	-	4	102	110	4	39	17	-
Sunflowerseed	150	156	136	204	197	218	186	153
Rape/Mustard	391	535	811	773	761	1119	1015	1041
Linseed	58	65	71	129	266	274	535	360
Palm Kernel	808	667	644	670	681	654	644	357
Copra	874	872	814	842	977	848	1011	832
Total	10445	9887	11593	11439	14217	13651	17159	15906

Source : Derived from Table : D.

GERMANY F.R.

TABLE - F : IMPORTS OF OILCAKE & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	585	885	973	1177	1123	1116	1179	1422
Soyabean	704	794	2272	2315	3366	4702	7552	7385
Cottonseed	752	686	1089	1453	1417	1876	2140	1356
Sunflowerseed	504	398	649	590	391	511	1105	1091
Rape Mustard	275	189	362	276	413	434	496	536
Linseed	1617	1832	2329	2101	2336	2862	2391	1844
Palm Kernel	1810	1810	2104	1626	2195	2179	2478	2074
Copra	1462	1619	1811	2464	2848	3205	3827	3228
Others	1073	1073	1062	1261	1198	1832	2250	1443
Total	8782	9286	12651	13263	15287	18717	23418	21384

GERMANY F.R.

TABLE - G : EXPORTS OF OILCAKE & MEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	73	94	115	45	22	88	101	150
Soyabean	2055	2346	1711	1821	1909	2023	1606	2240
Cottonseed	26	41	35	33	5	2	20	4
Sunflowerseed	22	57	12	-	5	2	1	-
Rape/Mustard	48	216	197	363	232	377	398	370
Linseed	20	9	4	2	12	37	75	100
Palm Kernel	-	-	-	-	-	-	-	-
Copra	55	35	26	5	12	22	26	150
Others	155	108	139	137	169	138	134	142
Total	2454	2906	2239	2406	2366	2689	2361	3156

GERMANY F.R.

TABLE - H : NET AVAILABILITY OF OILCAKES & MEALS AND NET AVAILABILITY OF FISHMEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	802	1212	1438	1263	1340	1321	1478	1786
Soyabean	6530	5615	8996	9074	12549	12885	19297	18294
Cottonseed	726	649	1156	1530	1416	1913	2137	1852
Sunflowerseed	632	497	773	794	583	727	1290	1244
Rape/Mustard	618	508	976	686	942	1176	1113	1207
Linseed	1648	1888	2396	2228	2590	3099	2851	2104
Palm Kernel	2618	2477	2748	2296	2876	2833	3122	2431
Copra	2281	2456	2599	3301	3813	4031	4812	3910
Others	918	965	923	1124	1029	1694	2116	1306
Total	16773	16267	22005	22296	27138	29679	38216	34134
Fishmeal	1929	2679	3319	2953	3919	4061	3611	4593

Source : Derived from Table E, F & G.

GERMANY F.R.

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES AND MEALS (INCLUDING FISHMEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	417	630	747	656	696	686	768	928
Soyabean	3003	2582	4138	4174	5772	5927	8876	8415
Cottonseed	297	266	473	627	580	784	876	759
Sunflowerseed	233	183	286	293	215	268	477	460
Rape/Mustard	222	182	351	246	339	423	400	434
Linseed	593	679	862	802	932	1115	1026	757
Palm Kernel	471	445	494	413	517	509	561	437
Copra	501	540	571	726	838	886	1058	860
Others	339	357	341	415	380	626	782	483
Fishmeal	1258	1741	2157	1919	2547	2640	2347	2988
Total	7334	7605	10420	10271	12816	13864	17171	16521

Source : Derived from Table H.

GERMANY F.R.

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	13.1	13.4	14.0	13.7
Hogs on farms	(million)	14.1	15.6	16.2	15.5
Eggs production	(million dzs)	658.0	702.0	761.0	833.0
Poultry Meat production	(million lbs)	219.5	239.7	248.6	266.6

	Unit	1964	1965	1966
Cattle on farms	(million)	13.5	13.9	14.3
Hogs on farms	(million)	17.4	17.1	16.8
Eggs production	(million dzs)	933.0	994.0	1075.0
Poultry Meat production	(million lbs)	313.6	336.0	387.5

GERMANY F.R.

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS 1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	6.5	6.7	7.0	6.7
Hogs	(million)	7.0	7.8	8.1	7.7
Eggs	(million dzs)	4.7	5.0	5.4	5.9
Poultry Meat	(million lbs)	1.0	1.1	1.1	1.2
Total		19.2	20.6	21.6	21.5

	Unit	1964	1965	1966
Cattle	(million)	6.7	6.9	7.1
Hogs	(million)	8.7	8.5	8.4
Eggs	(million)	6.7	7.1	7.7
Poultry Meat	(million)	1.4	1.5	1.7
Total		23.5	24.0	24.9

Source : Annexture Table II

GERMANY F.R.

TABLE - L : APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	733.4	760.5	1042.0	1027.1
Protein consumption	(million lbs)	1613.5	1673.1	2292.4	2259.6
Protein consuming units	(Million)	19.2	20.6	21.6	21.5
Consumption per unit	(lbs)	84.0	81.2	106.1	105.1
Oilcake* consumption per unit	(lbs)	191	184	241	239

	Unit	1964	1965	1966
Protein consumption.	('000	1281.6	1386.4	1717.1
Protein consumption	(Million lbs)	2819.5	3050.1	3777.6
Protein consuming units	(million)	23.5	24.0	24.9
Consumption per unit	(lbs)	120.0	127.1	151.7
Oilcake* consumption per unit	(lbs)	273	289	345

Source : Germany F.R. Table I & K

* In terms of 44% protein content.

SUPPLY-DISTRIBUTION

7. NETHERLANDS

NETHERLANDS

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	80	100	100	100	100	100c	100c	100c
Linseed	240	190	260	230	360	360c	360c	360c
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	320	290	360	330	460	460	460	460

NETHERLANDS

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	270	410	500	360	370	420*	390*	400*
Soyabean	3380	2630	3670	3120	4510	3910@	4280@	4430@
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	10	20	10	20	10	10*	10*	10*
Rape/Mustard	60	30	130	50	30	160+	180+	80+
Linseed	950	920	680	610	760	700@	1180@	1130@
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	1220	1430	1300	1270	1340	1130*	1310*	660*
Copra	1480	1600	1080	1260	1320	1360	1680	1260
Others	-	-	-	-	-	-	-	-
Total	7370	7040	7370	6690	8340	7690	8930	7970

* ISTA Oilworld, Hamburg.

@ Data obtained by Indian Embassy

NETHERLANDS

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	110	120	40	130	120	80@	40@	40@
Linseed	50	40	20	60	40	40c	40c	40c
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	160	160	60	190	160	120	80	80

@ : Data obtained by Indian Embassy.

NETHERLANDS

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	270	410	500	360	370	420	390	400
Soyabean	3380	2630	3670	3120	4510	3910	4280	4430
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	10	20	10	20	10	10	10	10
Rape/Mustard	30	10	190	20	10	130	140	140
Linseed	1140	1070	920	780	1080	1020	1500	1450
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	1220	1430	1300	1270	1340	1130	1310	660
Copra	1480	1600	1080	1260	1320	1360	1680	1260
Total	7530	7170	7670	6830	8640	8030	9310	8350

Source : Derived from Table : A, B & C.

NETHERLANDS

TABLE - E: OILCAKE EQUIVALENT OF OILSEEDS CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	151	229	280	201	207	235	218	224
Soyabean	2670	2077	2899	2464	3562	3088	3381	3499
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	6	13	6	13	6	6	6	6
Rape/Mustard	16	5	104	11	5	99	77	77
Linseed	729	684	588	499	691	652	960	928
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	634	743	676	660	696	587	681	343
Copra	518	560	378	441	462	476	588	441
Total	4724	4311	4931	4289	5629	5143	5911	5518

Source: Derived from Table D.

NETHERLANDS

TABLE - F : IMPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	279	433	342	383	334	192	283	345
Soyabean	1038	694	1285	1054	1294	1625	2128	2712
Cottonseed	413	531	682	731	553	601	640	469
Sunflowerseed	646	1072	901	910	552	694	1243	1185
Rape/Mustard	180	256	253	338	219	264	464	268
Linseed	1159	1259	1624	1682	1987	1796	1507	880
Sesamum	109@	194@	182@	189@	148@	100@	121@	53@
Palm Kernel	13	13	-	1	15	-	-	4
Copra	62	197	191	131	381	228	300	821
Others	231	362	324	341	260	230	284	154
Total	4130	5011	5784	5760	5743	5730	6970	6891

@ Data obtained by Indian Embassy

NETHERLANDS

TABLE - G : EXPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	45	74	115	47	54	35	17	27
Soyabean	872	834	1038	904	1455	1163	1309	1373
Cottonseed	1	4	2	4	17	4	6	4
Sunflowerseed	2	7	2	3	1	13	9	23
Rape/Mustard	14	4	28	23	7	4	26	14
Linseed	186	332	219	259	426	560	448	346
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	596	644	731	551	714	662	626	409
Copra	351	389	333	411	319	410	496	349
Others	72	42	60	94	61	13	13	21
Total	2139	2330	2528	2296	3054	2864	2950	2566

NETHERLANDS

TABLE - H: NET AVAILABILITY OF OILCAKES & MEALS AND NET AVAILABILITY OF FISHMEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	385	588	507	537	487	392	484	542
Soyabean	2836	1937	3146	2614	3401	3550	4200	4838
Cottonseed	412	527	680	727	536	597	634	465
Sunflowerseed	650	1078	905	920	557	687	1240	1168
Rape/Mustard	182	257	329	326	217	359	515	331
Linseed	1702	1611	1993	1922	2252	1888	2019	1462
Sesamum	109	194	182	189	148	100	121	53
Palm Kernel	51	112	-55	110	-3	-75	55	-62
Copra	229	368	236	161	524	294	392	913
Others	159	320	264	247	199	217	271	133
Total	6715	6992	8187	7753	8318	8009	9931	9843
Fishmeal	1364	1623	1725	1757	1820	1706	1382	1459

Source: Derived from Table E, F & G.

NETHERLANDS

TABLE - I: RAW PROTEIN EQUIVALENT OF OILCAKES & MEALS (INCLUDING FISHMEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	200	305	263	279	253	203	251	281
Soyabean	1304	891	1447	1202	1564	1633	1932	2225
Cottonseed	168	216	278	298	219	244	259	190
Sunflowerseed	240	398	334	340	206	254	458	432
Rape/Mustard	65	92	118	117	78	129	185	119
Linseed	612	579	717	691	810	679	726	526
Sesamum	43	77	72	75	59	40	48	21
Palm Kernel	9	20	-9	19	-	-13	9	-11
Copra	50	80	51	35	115	64	86	200
Others	58	118	97	91	73	80	100	49
Fishmeal	887	1055	1121	1142	1183	1109	898	948
Total	3366	3831	4489	4289	4560	4422	4552	4980

Source: Derived from Table H

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	3.5	3.6	3.8	3.7
Hogs on farms	(million)	3.0	2.9	2.8	2.9
Eggs production	(million doz)	485.0	500.0	505.0	445.0
Poultry Meat production*	(million lbs.)	163.5	177.0	208.3	219.5

	Unit	1964	1965	1966
Cattle on farms	(million)	3.6	3.8	3.9
Hogs on farms	(million)	3.3	3.7	3.9
Eggs production	(million) doz)	425.0	351.0	346.0
Poultry meat production *	(million lbs)	268.8	318.0	267.4

* Fowls and Ducks only

NETHERLANDS

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS
1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	1.7	1.8	1.9	1.8
Hogs	(million)	1.5	1.4	1.4	1.4
Eggs	(million doz)	3.5	3.6	3.6	3.2
Poultry Meat	(million lbs)	0.7	0.8	0.9	1.0
Total		7.4	7.6	7.8	7.4

	Unit	1964	1965	1966
Cattle	(million)	1.8	1.9	1.9
Hogs	(million)	1.6	1.8	1.9
Eggs	(million)	3.0	2.5	2.5
Poultry Meat	(million lbs)	1.2	1.4	1.6
Total		7.6	7.6	7.9

NETHERLANDS

TABLE - L: APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963	1964	1965	1966
Protein consumption	('000 tonnes)	336.6	383.1	448.9	428.9	456.0	442.2	455.2
Protein consumption	(million lbs)	740	843	988	944	1003	973	1001
Protein consuming units	(million)	7.4	7.6	7.8	7.4	7.6	7.6	7.9
Consumption per unit	(lbs)	100	111	127	128	132	128	127
Oilcake* consumption per unit	(lbs)	227	252	288	290	300	291	288

Source: Netherlands Table I & K

* In terms of 44% Protein content

SUPPLY-DISTRIBUTION

8. UNITED KINGDOM

UNITED KINGDOM

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-

UNITED KINGDOM

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	1290	1615	2113	1930	1473	893 ⊙	755 ⊙	999 ⊙
Soyabean	3190	1941	2428	2692	2946 ⊙	2870 ⊙	2855 ⊙	2529 +
Cottonseed	1392	1290	1890	1788	1138	1053 ⊙	487 ⊙	487 ⊙
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	41	51	71	81	122	326	428	407 +
Linseed	1605	1534	1321	1107	1158	1269 ⊙	1003 ⊙	958 +
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	2408	2286	2123	2113	1941	2040	1660	986 +
Copra	762	996	721	772	569	580 +	561 +	433 +
Total	10688	9713	10667	10483	9347	9031	7749	6799

+ U.K. Ministry of Agriculture, Fisheries and Food.

⊙ Data obtained by Indian High Commission.

UNITED KINGDOM

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-

UNITED KINGDOM

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	1290	1615	2113	1930	1473	893	755	999
Soyabean	3190	1941	2428	2692	2946	2870	2855	2529
Cottonseed	1390	1290	1890	1788	1138	1053	487	487
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	41	51	71	81	122	326	428	407
Linseed	1605	1534	1321	1107	1158	1269	1003	958
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	2408	2286	2123	2113	1941	2040	1660	986
Copra	762	996	721	772	569	580	561	433
Total	10688	9713	10667	10483	9347	9031	7749	6799

Source : Derived from Tables - A, B & C.

UNITED KINGDOM

TABLE - E : OILCAKE EQUIVALENT OF SEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	722	904	1183	1080	824	500	422	559
Soyabean	2520	1533	1918	2126	2327	2267	2255	1997
Cottonseed	584	541	793	750	477	442	204	204
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	22	28	39	44	67	179	235	223
Linseed	1027	981	845	708	741	812	641	613
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	1252	1188	1103	1098	1009	1060	863	512
Copra	266	348	252	270	199	203	196	151
Total	6393	5523	6133	6076	5644	5463	4816	4259

Source : Derived from Table - D.

UNITED KINGDOM

TABLE - F : IMPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	5521	6046	6453	5731	4927	4885	3731	3372
Soyabean	2192	1417	2118	2216	1930	2476	2160	1638
Cottonseed	2512	2284	2115	1771	1724	2391	2268	2052
Sunflowerseed	1001	1029	1101	634	595	695	1121	1332
Rape/Mustard	-	-	-	-	-	-	650	630
Linseed	501	272	329	271	197	259	108	80
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	650	744	780	555	626	909	1170	1041
Total	12377	11792	12896	11178	9999	11615	11208	10145

UNITED KINGDOM

TABLE - G : EXPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	04	13	9	-	-	2	2@	-
Soyabean	-	-	-	-	2	-	-	-
Cottonseed	-	-	-	6	-	1	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	1	2	-	2	-	-	3@	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	5	15	9	8	2	3	5	-

@ Data obtained by the Indian High Commission.

UNITED KINGDOM

TABLE - H : NET AVAILABILITY OF OILCAKES & MEALS AND NET AVAILABILITY OF FISHMEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	6239	6937	7627	6811	5751	5383	4151	3931
Soyabean	4712	2950	4036	4342	4255	4743	4415	3635
Cottonseed	3096	2825	2908	2515	2201	2832	2472	2256
Sunflowerseed	1001	1029	1101	634	595	695	1121	1332
Rape/Mustard	22	28	39	44	67	179	885	853
Linseed	1527	1251	1174	977	938	1071	746	693
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	1252	1188	1103	1098	1009	1060	863	512
Copra	266	348	252	270	199	203	196	151
Others	650	744	780	555	626	909	1170	1041
Total	18765	17300	19202	17246	15641	17075	16019	14404
Fish Meal	1691	2337	2766	2817	3672	3605	3094	3939

Source : Derived from Tables - E, F, & G.

UNITED KINGDOM

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES & MEALS (INCLUDING FISH MEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	3244	3607	3966	3541	2990	2799	2158	2044
Soyabean	2167	1357	1856	1997	1957	2181	2030	1672
Cottonseed	1269	1158	1192	1031	902	1161	1013	924
Sunflowerseed	370	380	407	234	220	257	414	492
Rape/Mustard	7	10	14	15	24	64	318	307
Linseed	549	450	422	351	337	385	268	249
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	225	213	198	197	181	190	155	92
Copra	53	76	55	59	43	44	43	33
Others	240	275	288	205	231	336	432	385
Total	8129	7256	8398	7630	6885	7417	6831	6198
Fish Meal	1099	1519	1793	1831	2387	2345	2011	2560

UNITED KINGDOM

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	11.8	11.9	11.9	11.1
Hogs on farms	(million)	5.7	6.0	6.7	6.9
Eggs production	(million doz)	1080.0	1132.0	1131.0	1197.0
Poultry meat production	(million lbs)	689.0	775.0	762.0	798.0

	Unit	1964	1965	1966	1967
Cattle on farms	(million)	11.6	12.0	12.3	12.4
Hogs on farms	(million)	7.4	8.0	7.4	7.2[E]
Eggs production	(million doz)	1267.0	1214.0	1255.0[E]	1255.0[E]
Poultry meat production	(million lbs)	836.0	898.0	909.0	925.0

E : Estimated

Source : Commonwealth Economic Committee, Meat, Dairy Produce H.M.S.O., London, (Various Issues).

UNITED KINGDOM

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS 1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	5.9	5.9	5.9	5.8
Hogs	(million)	2.8	3.0	3.3	3.4
Eggs	(million doz)	7.7	8.0	8.0	8.4
Poultry Meat	(million lbs)	3.1	3.3	3.4	3.5
Total		19.5	20.2	20.6	21.1

	Unit	1964	1965	1966	1967
Cattle	(million)	5.8	6.0	6.1	6.2
Hogs	(million)	3.7	4.0	3.7	3.6
Eggs	(million doz)	9.0	8.7	9.0	9.0
Poultry Meat	(million lbs)	3.7	4.0	4.0	4.1
Total		22.3	22.7	22.8	22.9

UNITED KINGDOM

TABLE - L : APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-67

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	922.8	904.5	1019.6	946.1
Protein consumption	(million lbs.)	2030.2	1989.9	2243.1	2081.4
Protein consuming units	(million)	19.5	20.2	20.6	21.1
Consumption per unit	(lbs.)	104.1	98.5	108.9	98.6
Oilcake* consumption per unit	(lbs.)	236.6	223.9	247.5	224.1

	Unit	1964	1965	1966	1967
Protein consumption	('000 tonnes)	927.2	976.0	884.2	875.8
Protein consumption	(million lbs.)	2039.8	2147.2	1945.2	1962.8
Protein consuming units	(million)	22.3	22.7	22.8	22.9
Consumption per unit	(lbs.)	91.5	94.6	85.3	85.7
Oilcake* consumption per unit	(lbs.)	208.0	215.0	193.9	194.8

* In terms of 44% protein content.

SUPPLY-DISTRIBUTION

9. OTHER WEST EUROPE

OTHER WEST EUROPE

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut u/	71	81	102	81	91	86	86	86
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	1453	2123	2225	1900	1626	1670	1300	1250
Sunflowerseed	20	20	20	20	20	20	20	20
Rape/Mustard	882	1691	2252	1562	2622	2660	1490	2800
Linseed	92	92	83	41	52	19	18	18
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Total	2518	4007	4682	3604	4411	4455	3414	4174

OTHER WEST EUROPE

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	618	1004	1126	932	1096	1117	1111	1099
Soyabean	4942	3850	5113	5113	6049	9229	11570	15013
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	40	40	50	70	50	10	22	21
Rape/Mustard	70	110	90	40	80	82	123	91
Linseed	402	463	456	400	751	537	872	577
Sesamum	142	91	193	36	32	19	32	22
Palm Kernel	221	171	211	221	251	201	241	151
Copra	1905	1903	1282	1522	1454	1530	1645	1356
Others	-	-	-	-	-	-	-	-
Total	8340	7615	8521	8364	9763	12725	15616	18330
Castorseed	10	-	10	10	2	-	8	8

OTHER WEST EUROPE

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	400	340	400	810	980	1102	484	415
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Total	400	340	400	810	980	1102	484	415

OTHER WEST EUROPE

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	667	1060	1197	988	1159	1177	1171	1159
Soyabean	4942	3830	5113	5113	6049	9229	11570	15013
Cottonseed	1453	2123	2225	1900	1626	1670	1800	1250
Sunflowerseed	60	60	70	90	70	30	42	41
Rape/Mustard	552	1461	1942	792	1722	1640	1129	2476
Linseed	494	558	539	441	803	556	890	595
Sesamum	142	91	193	66	32	19	32	22
Palm Kernel	221	171	211	221	251	201	241	151
Copra	1905	1903	1282	1522	1454	1530	1645	1356
Total	10436	11257	12772	11133	13166	16052	18520	22063
Castorseed	10	-	10	10	2	-	8	8

Source : Derived from Tables - A, B & C.

OTHER WEST EUROPE

TABLE - G : EXPORTS OF OILCAKES & MEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	5	21	43	8	18	27	12	10
Soyabean	795	717	895	972	1063	1210	1114	1890
Cottonseed	22	22	65	78	104	151	151	141
Sunflowerseed	2	-	9	-	-	-	-	4
Rape/Mustard	6	-	3	-	4	-	17	14
Linseed	6	4	10	3	6	7	24	11
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	92	180	202	163	220	202	147	162
Others	27	35	68	79	107	97	84	77
Total	955	979	1295	1303	1522	1694	1549	2309

OTHER WEST EUROPE

TABLE - H : NET AVAILABILITY OF OILCAKES AND MEAL AND NET AVAILABILITY OF FISH MEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	1514	2189	2439	2627	3135	2964	3172	2926
Soyabean	6931	5134	7390	9294	10308	12239	15568	15933
Cottonseed	4573	4680	5151	5829	5757	6399	6612	5092
Sunflowerseed	1571	1704	1343	966	587	823	1515	1579
Rape/Mustard	501	1126	1228	576	1114	1054	901	1577
Linseed	957	1005	871	905	1173	1095	1187	883
Sesamum	90	65	117	49	31	27	94	99
Palm Kernel	114	88	109	114	130	104	125	78
Copra	1216	1215	889	1127	1475	1454	1259	1280
Others	138	49	214	360	306	557	696	680
Total	17605	17255	19751	21847	24016	26716	31129	30127
Fish Meal	1760	1798	2240	2582	2678	3714	4804	3870

Source : Derived from Tables - E, F & G.

OTHER WEST EUROPE

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES & MEAL
(INCLUDING FISH MEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	787	1138	1268	1366	1630	1541	1649	1521
Soyabean	3188	2361	3399	4275	4741	5629	7161	7329
Cottonseed	1874	1918	2111	2389	2360	2623	2710	2087
Sunflowerseed	581	630	496	357	217	304	560	584
Rape/Mustard	180	405	442	207	401	379	324	567
Linseed	344	361	313	325	422	394	427	317
Sesamum	36	26	46	19	12	10	37	39
Palm Kernel	20	15	19	20	23	18	22	14
Copra	267	267	195	247	324	319	276	281
Fish Meal	1144	1169	1459	1678	1741	2414	3123	2515
Others	51	18	79	133	113	206	257	251
Total	8472	8308	9827	11016	11984	13837	16546	15505

Source : Supply-distribution Tables, Austria, Ireland, Denmark, Norway, Sweden, Spain, Switzerland and Finland.

OTHER WEST Europe

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960 - 66

	Unit	1960	1961	1962	1963
Cattle on farms	(Million)	19.7	20.2	20.3	19.9
Hogs on farms	(million)	18.6	19.1	20.2	19.8
Egg production	(million doz.)	917.0	953.0	1018.0	1170.0
Poultry meat production	(million lbs.)	437.1	520.8	605.3	636.4

	Unit	1964	1965	1966
Cattle on farms	(million)	19.9	20.1	20.5
Hogs on farms	(million)	19.8	20.8	19.6
Eggs production	(million doz.)	1128.0	1119.0	1147.0
Poultry meat production	(million lbs.)	723.5	727.7	891.2

Source : Supply-distribution Tables for Finland, Austria, Sweden, Norway, Denmark, Ireland & Spain.

OTHER WEST EUROPE

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS 1960-66

	Units	1960	1961	1962	1963
Cattle	(million)	9.7	9.9	9.9	9.7
Hogs	(million)	9.1	9.1	9.9	9.7
Eggs	(million doz.)	6.4	6.7	7.2	8.4
Poultry meat	(million lbs.)	1.9	2.2	2.7	2.8
Total		27.1	27.9	29.7	30.6

	Units	1964	1965	1966
Cattle	(million)	9.7	9.9	10.2
Hogs	(million)	9.7	10.3	9.7
Eggs	(million doz.)	8.0	8.0	8.0
Poultry meat	(million lbs.)	3.0	3.3	3.3
Total		30.4	31.5	31.2

Source : Supply-distribution Tables for Finland, Austria, Sweden, Norway, Denmark, Ireland and Spain.

OTHER WEST EUROPE ./

TABLE - L : APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Units	1960 **	1961	1962	1963
Protein consumption	('000 tonnes)	347.2	830.8	982.7	1101.6
Protein consumption	(million lbs.)	1863.8	1827.8	2161.9	2423.5
Protein consuming units	(million)	23.7	28.1	29.7	30.6
Consumption per unit	(lbs.)	79	65	73	79
Oilcake * consumption per unit	(lbs.)	179	148	165	180

	Units	1964	1965	1966
Protein consumption	('000 tonnes)	1198.4	1383.7	1654.6
Protein consumption	(million lbs.)	2636.5	3044.1	3640.1
Protein consuming units	(million)	30.4	31.5	31.2
Consumption per unit	(lbs.)	87	97	117
Oilcake * consumption per unit	(lbs.)	197	220	265

./ Includes Denmark, Spain, Norway, Sweden, Finland, Austria & Ireland

** Excluding Ireland

* In terms of 44% protein content

Source : Tables J and K.

SUPPLY-DISTRIBUTION

10. AUSTRIA

AUSTRIA

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	60	90	90	70	110	120*	140*	140*
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	60	90	90	70	110	120	140	140

* ISTA : Oil World (Hamburg)

AUSTRIA

TABLE - B : IMPORTS OF OIL SEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	20	20	30	20	2	20**	10**	20**
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	30	30	40	50	40	-	12*	21*
Rape/Mustard	-	-	10**	10**	10**	12**	13**	11**
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	90	80	80	30	-	-	-	-
Total	140	130	160	110	70	32	35	52

* ISTA Oil World

** Data obtained by the Indian Embassy

AUSTRIA

TABLE - C : EXPORTS OF OIL SEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	30	-	-	70	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	30	-	-	70	-	-	-	-

AUSTRIA

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	20	20	30	20	20	20	10	20
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	30	30	40	50	40	-	12	21
Rape/Mustard	30	90	100	10	120	132	153	151
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	90	80	80	30	-	-	-	-
Others	-	-	-	-	-	-	-	-
Total	170	220	250	110	180	152	175	192

Derived from Tables - A, B & C.

AUSTRIA

TABLE - E : OILCAKE EQUIVALENT OF OILSEED CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	11	11	16	11	11	11	5	11
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	20	20	26	33	26	-	8	14
Rape/Mustard	16	49	55	5	66	72	84	83
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	31	28	28	10	-	-	-	-
Total	78	108	125	59	103	83	97	108

Source : Derived from Table - D.

AUSTRIA

TABLE - F : IMPORTS OF OILCAKES

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	151	152	128	143	128	188	149**	200**
Soyabean	153	146	221	254	332	421	502**	556**
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	9	10	5	7	26	51	81**	62**
Linseed	96	95	88	103	92	128	137**	116**
Sesamum	17**	18**	17**	15**	15**	18**	18**	21**
Palm Kernel	-	-	-	-	-	-	-	-
Copra	10	-	-	10	16	19	17	18
Others	2	2	12	25	27	55	51	74
Total	438	423	471	557	636	880	955	1047

** Data obtained by the Indian Embassy

AUSTRIA

TABLE - G : EXPORTS OF OILCAKES

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	4	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	23	2	2	-	-	-	-
Others	-	-	-	-	-	-	-	-
Total	-	23	2	2	4	-	-	-

AUSTRIA

TABLE - H : NET AVAILABILITY OF OILCAKES AND FISH MEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	162	163	144	154	139	199	154	211
Soyabean	153	146	221	254	332	421	502	556
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	20	20	26	33	26	-	8	14
Rape/Mustard	25	59	60	12	88	123	165	145
Linseed	96	95	88	103	92	128	137	116
Sesamum	17	18	17	15	15	18	18	21
Palm Kernel	-	-	-	-	-	-	-	-
Copra	41	5	26	18	16	19	17	18
Others	2	2	12	25	27	55	51	74
Total	516	508	594	614	735	963	1052	1155
Fish Meal	218	240	280	303	363	383	380	456

AUSTRIA

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES AND MEAL (INCLUDING FISH MEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	84	84	74	80	72	103	80	109
Soyabean	70	67	101	116	152	193	230	255
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	7	7	9	12	9	-	2	5
Rape/Mustard	9	21	21	4	31	44	59	52
Linseed	34	34	31	37	33	46	49	41
Sesamum	6	7	6	6	6	7	7	8
Palm Kernel	-	-	-	-	-	-	-	-
Copra	9	1	5	3	3	4	3	3
Fish Meal	142	156	132	197	236	249	247	296
Others	-	-	4	9	9	20	18	27
Total	361	377	433	464	551	666	695	796

Source : Derived from Table - H : Raw protein % are taken from ISTA, Oilworld, Semi-annual, May 1967.

Commonwealth Economic Committee

1) Vegetable oil and oilseeds : A Review op. cit.
2) Commonwealth Secretariate Tropical products Quarterly op.cit.
3) ISTA, Mielke & Co., Hamburg : (a) Oilworld, Semi-annual
   (b) Oilworld, Quarterly
   (c) Oilworld, Weekly
4) United States, Department of Agriculture, Publications.

AUSTRIA

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960 - 66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	2.4	2.5	2.4	2.3
Hogs on farms	(million)	2.7	2.7	2.6	2.6
Eggs production	(million doz)	102	94	128	130
Poultry meat production	(million lbs)	26.4	27.5	35.3	40.9

	Unit	1964	1965	1966
Cattle on farms	(million)	2.4	2.4	2.4
Hogs on farms	(million)	2.8	2.9	2.4
Eggs production	(million doz)	137	138	136+
Poultry meat production	(million lbs)	53.0	62.9	73.2+

Source : Commonwealth Economic Committee, Meat, Dairy Produce. H.M.S.O., London (Various issues)
Foreign Agriculture circular, U.S.Department of Agriculture (Various issues)

+ Figures are provisional

AUSTRIA

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS 1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	1.2	1.2	1.2	1.1
Hogs	(million)	1.3	1.3	1.3	1.3
Eggs	(million doz.)	0.7	0.7	0.9	0.9
Poultry meat	(million lbs.)	0.1	0.1	0.2	0.2
Total		3.3	3.3	3.6	3.5

	Unit	1964	1965	1966
Cattle	(million)	1.2	1.2	1.2
Hogs	(million)	1.4	1.4	1.2
Eggs	(million doz.)	1.0	1.0	1.0
Poultry meat	(million lbs.)	0.2	0.3	0.3
Total		3.8	3.9	3.7

Source : Table - J : (See note on methodology for converting livestock into high protein consuming Animal units.)

AUSTRIA

TABLE - L : APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	36.1	37.7	43.3	46.4
Protein consumption	(million lbs)	79.4	82.9	95.4	102.1
Protein consuming unit	(million)	3.3	3.3	3.6	3.5
Consumption per unit	(lbs)	24	25	26	29
Oilcake consumption per unit	(lbs)	54	57	59	66

	Unit	1964	1965	1966
Protein consumption	('000 tonnes)	55.1	66.6	69.5
Protein consumption	(million lbs)	121.2	146.5	152.9
Protein consuming units	(million)	3.8	3.9	3.7
Consumption per unit	(lbs)	32	38	41
Oilcake consumption per unit	(lbs)	73	85	93

SUPPLY-DISTRIBUTION

11. DENMARK

DENMARK

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	130	270	520	260	510	460	360	320
Linseed	10	20	10	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	140	290	530	260	510	460	360	320

DENMARK

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	20	20	40	40	30	30*	20*	10*
Soyabean	3660	3020	3740	3710	3730	4040*	3060*	4590*
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	50	40	30	40	70	100*	120*	60*
Sesamum	-	-	20	20	20	-	20*	20*
Palm Kernel	160	110	150	160	190	140*	180*	90*
Copra	440	430	370	390	300	350*	320*	210*
Total	4330	3620	4350	4360	4340	4660	3720	4980

* ISTA Oilworld, Hamburg.

DENMARK

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	120	270	250	440	490	370	310	200
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	120	270	250	440	490	370	310	200

DENMARK

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	20	20	40	40	30	30	20	10
Soyabean	3660	3020	3740	3710	3730	4040	3060	4590
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	10	-	270	180	20	90	50	120
Linseed	60	60	40	40	70	100	120	60
Sesamum	-	-	20	20	20	-	20	20
Palm Kernel	160	110	150	160	190	140	180	90
Copra	440	430	370	390	300	350	320	210
Total	4350	3640	4630	4180	4360	4750	3770	5100

Source : Derived from Tables - A, B & C

DENMARK

TABLE - E : OILCAKE EQUIVALENT OF OILSEEDS CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	11	11	22	22	16	16	11	5
Soyabean	2391	2385	2954	2930	2946	3191	2417	3626
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	5	-	148	-99	11	49	27	66
Linseed	38	38	25	25	44	64	76	38
Sesamum	-	-	10	10	10	-	10	10
Palm Kernel	83	57	78	83	98	72	93	46
Copra	154	150	129	136	105	122	112	73
Total	3182	2641	3366	3107	3230	3514	2746	3864

Source : Derived from Table - D.

DENMARK

TABLE - F : IMPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	293	568	554	754	1051	937	885	993
Soyabean	1600	1459	1618	1660	2367	2233	2657	2157
Cottonseed	3117	2950	3216	3613	3772	3992	3948	2898
Sunflowerseed	1065	1083	942	565	444	504	922	1005
Rape/Mustard	178	126	100	128	141	101	96	116
Linseed	277	266	199	194	266	306	253	195
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	456	555	396	528	798	657	503	602
Others	143	59	52	73	31	16	63	32
Total	7129	7066	7077	7515	8870	8746	9327	7998

DENMARK

TABLE - G : EXPORTS OF OILCAKE & MEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	5	18	13	5	18	22	11	8
Soyabean	780	652	881	931	1048	1162	1036	1288
Cottonseed	22	22	65	78	104	150	150	141
Sunflowerseed	2	-	9	-	-	-	-	4
Rape/Mustard	6	-	3	-	-	-	17	14
Linseed	3	3	10	3	2	4	8	8
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	80	130	163	127	212	200	131	156
Others	27	35	58	77	105	63	59	52
Total	925	860	1202	1221	1489	1601	1412	1671

DENMARK

TABLE - H: NET AVAILABILITY OF OILCAKES & MEALS AND NET AVAILABILITY OF FISHMEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	299	561	563	771	1049	931	885	990
Soyabean	3711	3192	3691	3659	4265	4262	4038	4495
Cottonseed	3095	2928	3151	3535	3668	3842	3798	2757
Sunflowerseed	1063	1083	933	565	444	504	922	1001
Rape/Mustard	177	126	245	129	152	150	106	168
Linseed	312	301	214	216	308	366	321	225
Sesamum	-	-	10	10	10	-	10	10
Palm Kernel	83	57	78	83	98	72	93	46
Copra	530	575	362	537	691	579	484	519
Others	116	24	-6	-4	-74	-47	4	-20
Total	9386	8847	9241	9401	10611	10659	10661	10191
Fish Meal	371	453	520	542	700	650	617	829

Source : Derived from Tables - E, F & G.

DENMARK

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES & MEALS
(INCLUDING FISHMEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	155	291	292	400	545	484	460	514
Soyabean	1707	1468	1697	1683	1961	1960	1857	2067
Cottonseed	1268	1200	1291	1449	1503	1575	1557	1130
Sunflowerseed	393	400	345	209	164	186	341	370
Rape/Mustard	63	45	88	10	54	54	38	60
Linseed	112	103	77	77	110	131	115	81
Sesamum	-	-	4	4	4	-	4	4
Palm Kernel	14	10	14	14	17	12	16	8
Copra	116	126	79	118	152	127	106	114
Fish Meal	241	294	338	352	455	423	401	539
Others	42	8	-2	-1	-27	-17	1	-7
Total	4111	3950	4223	4315	4938	4935	4896	4880

Source : Derived from Table - H : Raw Protein % are taken from ISTA Oilworld, Semi-annual, May 1967.

Commonwealth Economic Committee

1) Vegetable oils and oilseeds, : A Review op . cit.
2) Commonwealth Secretariate Tropical Products, Quarterly op.cit.
3) ISTA, Maielke & Co., Hamburg : a) Oilworld, Semi-annual
   b) Oilworld, Quarterly
   c) Oilworld, Weekly
4) United States, Department of Agriculture, Publications.

DENMARK

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960 - 66

	Units	1960	1961	1962	1963
Cattle on farms	(million)	3.4	3.6	3.5	3.3
Hogs on farms	(million)	6.2	7.1	7.2	7.3
Eggs Production	(million Doz.)	197	181	162	152 1/
Poultry meat	(million lbs.)	105.2	143.3	157.5	145.6

	(Units	1964	1965	1966
Cattle on farms	(million)	3.3	3.3	3.4
Hogs on farms	(million)	8.0	8.6	8.1
Eggs production	(million Doz.)	142 1/	128 1/	128 1/
Poultry meat	(million lbs)	168.4	146.0	149.0

Source : Commonwealth Economic Committee, Meat, Dairy Produce H.M.S.O. London (Various issues)

1/ Revised series not comparable with earlier years.

DENMARK

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS 1960-66

	Units	1960	1961	1962	1963
Cattle	(million)	1.7	1.8	1.7	1.6
Hogs	(million)	3.1	3.3	3.6	3.6
Eggs	(million doz.)	1.4	1.3	1.1	1.1
Poultry meat	(million lbs.)	0.5	0.6	0.7	0.6
Total		6.7	7.2	7.1	6.9

	Units	1964	1965	1966
Cattle	(million)	1.6	1.6	1.7
Hogs	(million)	4.0	4.3	4.0
Eggs	(million doz.)	1.0	0.9	0.9
Poultry Meat	(million lbs.)	0.6	0.7	-
Total		7.2	7.5	6.6

Source : Annexure Table - I (See note on methodology for converting live-stock into high protein consuming animal units.)

DENMARK

TABLE - L : APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Units	1960	1961	1962	1963
Protein consumption	('000 tonnes)	411.1	395.0	422.3	431.5
Protein consumption	(million lbs.)	904	869	929	949
Protein consuming units	(million)	6.7	7.2	7.1	6.9
Consumption per unit	(lbs.)	135	121	131	137
Oilcake* consumption per unit	(lbs.)	307	275	298	311

	Units	1964	1965	1966
Protein consumption	('000 tonnes)	493.8	493.5	489.6
Protein consumption	(million lbs.)	1086	1086	1077
Protein consuming units	(million)	7.2	7.5	6.6
Consumption per unit	(lbs.)	151	145	163
Oilcake* consumption per unit	(lbs.)	343	330	370

Source : Denmark Table - I & Tables J & K.

* In terms of 44% Protein content.

SUPPLY-DISTRIBUTION

12. FINLAND

FINLAND

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	40	60	80	80	80	70	30	90
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	40	60	80	80	80	70	30	90

FINLAND

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	10	20	10	10	10[c]	10[c]	10[c]
Soyabean	360	110	280	500	580	420[+]	670[+]	630[*]
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	70	110	60	-	40	40[*]	80[*]	50[*]
Linseed	20	110	140	140	120	120[+]	80[+]	100
Sesamum	-	-	-	-	-	-	-	-
Copra	70	110	70	90	80	880[*]	130[*]	140[*]
Total	520	450	570	740	830	670	970	930

* ISTA Oilworld, (Hamburg).

+ Foreign Agriculture Circular, U.S. Department of Agriculture.

FINLAND

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-

FINLAND

TABLE - D : OILSEED AVAILABILITY FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	10	20	10	10	10	10	10
Soyabean	360	110	280	500	580	420	670	630
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	110	170	140	80	120	110	110	140
Linseed	20	110	140	140	120	120	80	100
Sesamum	-	-	-	-	-	-	-	-
Copra	70	110	70	90	80	80	130	140
Total	560	510	650	820	910	740	1000	1020

Source : Derived from Table - A, B & C.

FINLAND

TABLE - E : OILCAKE EQUIVALENT OF SEED AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	5	11	5	5	5	5	5
Soyabean	284	86	221	395	458	331	529	497
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	60	93	77	44	66	60	60	77
Linseed	12	70	89	89	76	76	51	64
Sesamum	-	-	-	-	-	-	-	-
Copra	24	38	24	31	28	28	45	49
Total	380	292	422	564	633	500	690	692

Source : Derived from Table - D.

FINLAND

TABLE - F : IMPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	253	38	11	169	50	-	139	136
Cottonseed	159	188	200	319	101	186	236	115
Sunflowerseed	192	168	126	266	92	167	166	109
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	37	65	31	54	50	11	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	641	459	368	808	293	364	541	360

FINLAND

TABLE - G : EXPORTS OF OILCAKES

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-

FINLAND

TABLE - H : NET AVAILABILITY OF OILCAKES & MEALS AND NET AVAILABILITY OF FISH MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	5	11	5	5	5	5	5
Soyabean	537	124	232	564	508	331	668	633
Cottonseed	159	188	200	319	101	186	236	115
Sunflowerseed	192	168	126	266	92	167	166	109
Rape/Mustard	60	93	77	44	66	60	60	77
Linseed	49	135	120	143	126	87	51	64
Sesamum	-	-	-	-	-	-	-	-
Copra	24	38	24	31	28	28	45	49
Total	1021	751	790	1372	926	864	1231	1052
Fish Meal	68	125	161	72	178	196	206	263

Source : Derived from Table - E, F & G.

FINLAND

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	2	5	2	2	2	2	2
Soyabean	247	57	106	259	233	152	307	291
Cottonseed	65	77	82	130	41	76	96	47
Sunflowerseed	71	62	46	98	34	61	61	40
Rape/Mustard	21	33	27	15	23	21	21	27
Linseed	17	43	43	51	45	31	18	23
Sesamum	-	-	-	-	-	-	-	-
Copra	5	8	5	6	6	6	9	10
Fish Meal	44	81	105	47	116	127	134	171
Total	470	378	419	608	500	476	648	611

Source : Derived from Table - H : Raw Protein % are taken from ISTA Oilworld, Semi-Annual, May 1967.

Commonwealth Economic Committee
1) Vegetable Oils and Oilseeds, A Review op. cit.
2) Commonwealth Secretariate Tropical Products Quarterly op. cit.
3) ISTA, Mielke & Co., Hamburg, a) Oilworld, Semi-annual
b) Oilworld, Quarterly
c) Oilworld, Weekly
4) United States, Department of Agriculture, Publications.

FINLAND

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	1.9	2.1	2.2	2.2
Hogs on farms	(million)	0.4	0.5	0.6	0.5
Eggs production	(million doz)	63	62	64	69
Poultry meat	(million lbs)	46.3[c]	46.3	48.5	39.7

	Unit	1964	1965	1966
Cattle on farms	(million)	2.1	2.0	2.0
Hogs on farms	(million)	0.5	0.6	0.6[c]
Eggs production	(million doz)	74	76	79
Poultry meat production	(million lbs)	46.3	31.9	41.9[c]

Source : Commonwealth Economic Committee, Meat, Diary Produce H.M.S.O. London (Various Issues).

FINLAND

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS 1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	0.9	1.0	1.1	1.1
Hogs	(million)	0.2	0.2	0.3	0.2
Eggs	(million doz)	0.4	0.4	0.4	0.5
Poultry meat	(million lbs)	0.2	0.2	0.2	0.2
Total		1.7	1.8	2.0	2.0

	Unit	1964	1965	1966
Cattle	(million)	1.0	1.0	1.0
Hogs	(million)	0.2	0.3	0.3
Eggs	(million doz)	0.5	0.5	0.5
Poultry Meat	(million lbs)	0.2	0.2	0.2
Total		1.9	2.0	2.0

Source : Table - J

FINLAND

TABLE - L : APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	47.0	37.8	41.9	60.8
Protein consumption	(million lbs)	103.4	83.2	92.2	133.8
Protein consuming units	(million)	1.7	1.8	2.0	2.0
Consumption per unit	(lbs)	61	46	46	67
Oilcake* consumption per unit	(lbs)	139	105	105	152

	Unit	1964	1965	1966
Protein consumption	('000	50.0	47.6	64.8
Protein consumption	(million lbs)	110.0	105.4	143.3
Protein consuming unit	(million)	1.9	2.0	2.0
Consumption per unit	(lbs)	58	53	72
Oilcake* consumption per unit	(lbs)	132	120	164

Source : Finland Table I, Table J & K

* In terms of 44% protein content

SUPPLY-DISTRIBUTION

13. IRELAND

IRELAND

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-

IRELAND

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	30	20	10	-	35	10@	33@	29@
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	40	50	50	40	40	30@	49@	38@
Total	70	70	60	40	75	40	82	67

@ Data Obtained from Indian Embassy.

IRELAND

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-

IRELAND

TABLE - D : OILSEEDS AVAILABILITY FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	30	20	10	-	35	10	33	29
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	40	50	50	40	40	30	49	38
Total	70	70	60	40	75	40	82	67

Source : Derived from Table - A, B & C.

IRELAND

TABLE - E : OILCAKE EQUIVALENT OF OILSEEDS CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	19	12	6	-	22	6	21	18
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	14	17	17	14	14	10	17	13
Total	33	29	23	14	36	16	38	31

Source : Derived from Table - D.

IRELAND

TABLE - F : IMPORTS OF OILCAKES AND MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	61	166	150	108	83	58	114	49
Soyabean	208	189	234	285	276	519	486	488
Cottonseed	158	96	135	118	145	161	155	146
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	111	105	104	133	107	135	112	94
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	6	18	33	16	15	32	63	71
Total	544	574	656	660	626	905	930	848

** Data obtained by the Indian Embassy.

IRELAND

TABLE - G : EXPORTS OF OILCAKE AND MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-

IRELAND

TABLE - H : NET AVAILABILITY OF OILCAKES AND NET AVAILABILITY OF FISH MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	61	166	150	108	83	58	114	49
Soyabean	208	189	234	285	276	519	486	488
Cottonseed	158	96	135	118	145	161	155	146
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	130	117	110	133	129	141	133	112
Palm Kernel	-	-	-	-	-	-	-	-
Copra	14	17	17	14	14	10	17	13
Others	6	18	33	16	15	32	63	71
Total	577	603	679	674	662	921	968	879
Fish Meal	-	44	53	86	101	134	115	172

Source : Derived from Tables - E, F & G.

IRELAND

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES AND MEALS (INCLUDING FISHMEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	31	86	78	56	43	30	59	25
Soyabean	95	86	107	131	126	238	223	224
Cottonseed	64	39	55	48	59	66	63	59
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	46	42	39	47	46	50	47	40
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	3	3	3	3	3	2	3	2
Others	2	6	12	5	5	11	23	26
Fishmeal	-	29	35	56	66	87	75	112
Total	241	291	339	346	348	484	493	488

Source: Derived from Table - H : Raw Protein % are taken from ISTA, Oilworld, Semi-Annual, May 1967.

Commonwealth Economic Committee

1) Vegetable Oils and Oilseeds : A Review op. cit
2) Commonwealth Secretariate Tropical Products Quarterly, op. cit
3) ISTA, Mielke & Co., Hamburg, a) Oilworld, Semi-Annual
   b) Oilworld, Quarterly
   c) Oilworld, Weekly
4) United States, Department of Agriculture, Publications.

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	4.7	4.7	4.7	4.9
Hogs on farms	(million)	0.9	1.1	1.1	1.1
Eggs production	(million doz)	69	69	67	68
Poultry meat production	(million lbs)	38.3	38.7	38.1	42.1

	Unit	1964	1965	1966
Cattle on farms	(million)	5.0	5.4	5.7
Hogs on farms	(million)	1.1	1.3	1.0
Eggs production	(million doz)	66	67	67[c]
Poultry Meat production	(million lbs)	44.8	47.0	47.0[c]

Source : Commonwealth Economic Committe, Meat, Dairy Produce H.M.S.O., London (Various Issues)

IRELAND

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS
1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	2.3	2.3	2.3	2.4
Hogs	(million)	0.4	0.5	0.5	0.5
Eggs	(million doz)	0.5	0.5	0.5	0.5
Poultry meat	(million lbs)	0.2	0.2	0.2	0.2
Total		3.4	3.5	3.5	3.6

	Unit	1964	1965	1966
Cattle	(million)	2.5	2.7	2.8
Hogs	(million)	0.5	0.6	0.5
Eggs	(million doz)	0.5	0.5	0.5
Poultry meat	(million lbs)	0.2	0.2	0.2
Total		3.7	4.0	4.0

Source : Annexure Table I

IRELAND

TABLE - L : APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960 - 1966

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	24.1	29.1	33.9	34.6
Protein consumption	(million lbs)	53.0	64.0	74.6	76.4
Protein consuming unit	(million)	3.4	3.5	3.5	3.6
Consumption per unit	(lbs)	16	18	21	21
Oilcake* consumption per unit	(lbs)	35	41	48	48

	Unit	1964	1965	1966
Protein consumption	('000 tonnes)	34.8	48.4	49.3
Protein consumption	(million lbs)	76.6	106.5	108.5
Protein consuming units	(million)	3.7	4.0	4.0
Consumption per unit	(lbs)	21	27	27
Oilcake* consumption per unit	(lbs)	47	60	62

Source ; 1) Ireland Table - I, Annexure Tables - J & K.

* In terms of 44 % protein content.

SUPPLY-DISTRIBUTION

14. NORWAY

NORWAY

TABLE - A: PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut								
Soyabean								
Cottonseed								
Sunflowerseed								
Rape/Mustard				N I L				
Linseed								
Sesamum								
Copra								
Others								
Total								

NORWAY

TABLE- B: IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	60	50	60	60	50	62*	85*	71*
Soyabean	800	660	750	750	1170	1310*	1454*	1659*
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	20	30	30	30	30	30
Linseed	140	120	110	80	150	65+	113+	52+
Sesamum	-	-	-	-	-	-	-	-
Copra	260	210	280	230	240	220*	310*	180*
Total	1260	1040	1220	1150	1640	1695	1992	1992

* ISTA Oilworld (Hamburg)

\+ Foreign Agriculture Circular, U.S.Department of Agriculture.

NORWAY

TABLE - C: EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut								
Soyabean								
Cottonseed								
Sunflowerseed								
Rape/Mustard				N I L				
Linseed								
Sesamum								
Copra								
Total								

NORWAY

TABLE - D: OILSEEDS AVAILABILITY FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	60	50	60	60	50	62	85	71
Soyabean	800	660	750	750	1170	1318	1454	1659
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	20	30	30	30[c]	30[c]	30[c]
Linseed	140	120	110	80	150	65	113	52
Sesamum	-	-	-	-	-	-	-	-
Copra	260	210	280	230	240	220	310	180
Total	1260	1040	1220	1150	1640	1695	1992	1992

Source: Derived from Tables A, B & C.

NORWAY

TABLE - E: OILCAKE EQUIVALENT OF SEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	33	28	33	33	28	34	47	39
Soyabean	632	521	592	592	924	1041	1148	1310
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	11	16	16	16	16	16
Linseed	89	76	70	51	96	41	72	33
Sesamum	-	-	-	-	-	-	-	-
Copra	91	73	98	80	84	77	108	63
Total	845	698	804	772	1148	1209	1391	1461

Source: Derived from Table - D.

NORWAY

TABLE - F: IMPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	347	362	586	593	698	496	447	345
Soyabean	186	64	240	207	88	-	-	-
Cottonseed	7	-	91	270	278	381	513	511
Sunflowerseed	193	316	186	32	-	90	250	261
Rape/Mustard	-	87	-	-	-	-	-	-
Linseed	87	106	86	112	113	119	114	82
Sesamum	-	-	-	-	-	-	-	-
Copra	102	46	73	47	3	51	-	-
Others	-	-	120	197	158	259	213	415
Total	922	981	1382	1458	1338	1396	1537	1614

NORWAY

TABLE - G: EXPORTS OF OILCAKES & MEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	3	10	2	-	-	-	-
Soyabean	15	65	4	40	14	43	34	372
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	1	-	-	4	3	-	3
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	1	6	-	-	-	-
Others	-	-	-	-	-	-	-	-
Total	15	69	15	48	18	46	34	375

NORWAY

TABLE - H: NET AVAILABILITY OF OILCAKES

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	380	387	609	624	726	530	494	384
Soyabean	803	520	828	759	998	998	1114	938
Cottonseed	7	-	91	270	278	381	513	511
Sunflowerseed	193	316	186	32	-	90	250	261
Rape/Mustard	-	87	11	16	16	16	16	16
Linseed	176	181	156	163	205	157	186	112
Sesamum	-	-	-	-	-	-	-	-
Copra	193	119	170	121	87	128	108	63
Others	-	-	120	197	158	259	213	415
Total	1752	1610	2171	2182	2468	2559	2894	2700
Fishmeal	435	168	294	162	@	338	1531	2292

Source: Derived from Table E, F & G.

@ Exports exceed production.

NORWAY

TABLE - I: RAW PROTEIN EQUIVALENT OF OILCAKE AND MEAL (INCLUDING FISHMEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	197	201	316	324	377	275	256	199
Soyabean	369	239	380	349	459	459	512	431
Cottonseed	2	-	37	110	113	156	210	209
Sunflowerseed	71	116	68	11	-	33	92	96
Rape/Mustard	-	31	3	5	5	5	5	5
Linseed	63	65	56	58	73	56	66	40
Sesamum	-	-	-	-	-	-	-	-
Copra	42	26	37	26	19	28	23	13
Fishmeal	283	109	191	105	-	220	995	-
Others	-	-	44	72	58	95	78	153
Total	1027	787	1132	1060	1104	1327	2237	1146

Source: Derived from Table - H. Raw Protein percent are taken from ISTA, Oilworld Semi-Annual, May 1967.

Commonwealth Economic Committee

1) Vegetable Oils and Oilseeds: A Review op.cit
2) Commonwealth Secretariate Tropical Products Quarterly op.cit
3) ISTA, Mielke & Co., Hamburg.
   a) Oilworld, Semi-Annual;
   b) Oilworld, Quarterly;
   c) Oilworld, Weekly.
4) United States, Department of Agriculture: Publications.

NORWAY

TABLE - J: CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	1.2	1.2	1.1	1.1
Hogs on farms	(million)	0.5	0.5	0.5	0.5
Eggs production	(million doz.)	47	45	46	45
Poultry meat production	(million lbs.)	55.1[c]	55.1	55.1	55.1

	Unit	1964	1965	1966
Cattle on farms	(million)	1.1	1.0	1.0
Hogs on farms	(million)	0.5	0.5	0.6[c]
Eggs production	(million doz.)	45	47	50./
Poultry meat production	(million lbs.)	57.3	70.5	70.5[c]

Source: Commonwealth Economic Committee, Meat; Dairy Produce H.M.S.O., London (Various issues).

./ Provisional.

NORWAY

TABLE - K: HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS
1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	0.6	0.6	0.5	0.5
Hogs	(million)	0.2	0.2	0.2	0.2
Eggs	(million doz.)	0.3	0.3	0.3	0.3
Poultry meat	(million lbs.)	0.2	0.2	0.2	0.2
Total		1.3	1.3	1.2	1.2

	Unit	1964	1965	1966
Cattle	(million)	0.5	0.5	0.5
Hogs	(million)	0.2	0.3	0.3
Eggs	(million doz.)	0.3	0.3	0.3
Poultry meat	(million lbs.)	0.2	0.3	0.3
Total		1.2	1.4	1.4

Source: Table - I (See note on methodology for converting livestock into high protein consuming animal units).

NORWAY

TABLE - L: APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	102.7	78.7	113.2	106.0
Protein consuming unit	(million lbs.)	225.9	173.1	249.0	233.2
Protein consuming unit	(million)	1.3	1.3	1.2	1.2
Consumption per unit	(lbs.)	174	133	208	194
Oilcake* consumption per unit	(lbs.)	395	302	473	442

	Unit	1964	1965	1966
Protein consumption	('000 tonnes)	110.4	132.7	223.7
Protein consumption	(million lbs.)	242.9	291.9	492.1
Protein consuming units	(million)	1.2	1.4	1.4
Consumption per unit	(lbs.)	202	208	352
Oilcake* consumption per unit	(lbs.)	460	474	799

Source: Table - I, Annexure Tables J & K.
* In terms of 44 percent protein content.

SUPPLY-DISTRIBUTION

15. SPAIN

SPAIN

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut u/	71	81	102	81	91	(86)	86c	86c
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	1453	2123	2225	1900	1626	1670*	1800*	1250*
Sunflowerseed	20	20	20	20	(20)	20c	20c	20c
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	52	52	63	41	52	17+	17c	17c
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	1596	2276	2410	2042	1789	1793	1923	1373

* ISTA, OILWORLD (Hamburg)

\+ Foreign Agriculture Circular, U.S. Department of Agriculture

SPAIN

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	234	142	224	286*	212*	214*
Soyabean	-	-	142	152	559	3399*	6384*	8132*
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	30	121	91	61	254	148*	364*	230*
Sesamum	132	91	163	46+	2+	9+	2+	2c
Palm Kernel	41	31	31	21	31	26	26c	26c
Copra	-	-	-	-	-	-	-	-
Total	203	243	661	422	1070	3868	6988	8604
Castorseed	10	-	10	10	2+	-	8	8c

* ISTA, OILWORLD (Hamburg)

\+ Foreign Agriculture Circular - U. S. Department of Agriculture

SPAIN

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut								
Soyabean								
Cottonseed								
Sunflowerseed			N	I	L			
Rape/Mustard								
Linseed								
Sesamum								
Palm Kernel								
Copra								
Total								

SPAIN

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	49	57	305	198	287	346	272	274
Soyabean	-	-	142	152	559	3400	6384	8132
Cottonseed	1453	2123	2225	1900	1626	1670	1800	1250
Sunflowerseed	20	20	20	20	20	20	20	20
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	82	174	154	102	306	165	381	247
Sesamum	132	91	163	46	2	9	2	2
Palm Kernel	41	31	31	21	31	26	26	26
Copra	-	-	-	-	-	-	-	-
Total	1777	2496	3040	2439	2831	5635	8885	9951

Source : Derived from Table A, B & C.

SPAIN

TABLE - E : OILCAKE EQUIVALENT OF OILSEED CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	27	31	170	110	160	198	152	153
Soyabean	-	-	112	120	441	2685	5043	6424
Cottonseed	610	891	934	798	682	701	756	525
Sunflowerseed	13	13	13	13	13	13	13	13
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	52	110	98	65	195	105	243	158
Sesamum	68	47	84	23	1	4	1	1
Palm Kernel	21	16	16	10	16	13	13	13
Copra	-	-	-	-	-	-	-	-
Total	791	1108	1427	1139	1508	3714	6221	7287

Source : Derived from Table D

SPAIN

TABLE - F : IMPORTS OF OILCAKES & MEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	49	35	85	14
Soyabean	-	-	580	1920	1500	872	1340	85
Cottonseed	-	-	-	-	2	21	20	6
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	11	11	2	6
Sesamum	-	-	-	-	-	-	60	67
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	-	-	30	55	40	65	35	33
Total	-	-	610	1975	1602	1004	1542	211

SPAIN

TABLE - G : EXPORTS OF OILCAKES & MEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	44	230
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	44	230

SPAIN

TABLE - H : NET AVAILABILITY OF OILCAKES & MEAL AND NET AVAILABILITY OF FISHMEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	27	31	170	110	209	223	237	167
Soyabean	-	-	692	2040	1941	3557	6339	6279
Cottonseed	610	391	934	798	684	722	776	531
Sunflowerseed	13	13	13	13	13	13	13	13
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	52	110	98	65	206	116	245	164
Sesamum	68	47	84	23	1	4	61	68
Palm Kernel	21	16	16	10	16	13	13	13
Copra	-	-	-	-	-	-	-	-
Others	-	-	30	55	40	65	35	33
Total	791	1108	2037	3114	3110	4713	7719	7268

Source : Derived from Tables E, F & G.

SPAIN

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES & MEAL
(INCLUDING FISHMEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	14	16	83	57	108	113	123	86
Soyabean	-	-	318	938	892	1636	2915	2888
Cottonseed	250	365	383	327	281	296	318	218
Sunflowerseed	4	4	4	4	4	4	4	4
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	18	39	35	23	74	41	88	59
Sesamum	27	18	33	9	-	1	24	27
Palm Kernel	3	2	2	1	2	2	2	2
Copra	-	-	-	-	-	-	-	-
Fishmeal	60	86	245	497	263	601	648	693
Others	-	-	11	20	14	24	12	12
Total	376	530	1119	1876	1637	2723	4134	3988

Source: Derived from Table H. Raw Protein % are taken from ISTA OILWORLD Semi-Annual, May 1967

1) Vegetable Oils & Oilseeds, A Review, Op. cit.
2) Commonwealth Secretariate Tropical Products Quarterly, Op.cit.
3) ISTA, Mielke & Co. Hamburg: (a) Oilworld, Semi-Annual
(b) Oilworld, Quarterly
(c) Oilworld, Weekly
4) United States, Department of Agriculture, Publications.

SPAIN

TABLE - J: CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	3.6	3.5	3.7	3.7
Hogs on farms	(million)	6.0	5.2	6.1	6.0
Eggs production	(million doz.)	301	371	417	569
Poultry meat production	(million lbs.)	138.9	180.8	241.7	281.6

	Unit	1964	1965	1966
Cattle on farms	(million)	3.7	3.7	3.8
Hogs on farms	(million)	5.0	5.0[c]	5.0[c]
Eggs production	(million doz.)	523	527	554./
Poultry meat production	(million lbs.)	311.1	324.6	464.8

Source: Commonwealth Economic Committee, Meat: Dairy Produce.

./ Provisional.

SPAIN

TABLE - K: HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS
1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	1.8	1.7	1.8	1.8
Hogs	(million)	3.0	2.6	3.0	3.0
Eggs	(million doz.)	2.1	2.6	3.0	4.1
Poultry meat	(million lbs.)	0.6	0.8	1.1	1.3
Total		7.5	7.7	8.9	10.2

	Unit	1964	1965	1966
Cattle	(million)	1.8	1.8	1.9
Hogs	(million)	2.5	2.5	2.5
Eggs	(million doz.)	3.7	3.8	3.9
Poultry meat	(million lbs.)	1.4	1.4	2.1

Source: Table - J: (See Note on methodology for converting livestock into high protein consuming animal units).

SPAIN

TABLE - L: APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	37.6	53.0	111.9	187.6
Protein consuming unit	(million lbs.)	82.7	116.6	246.2	412.7
Protein consuming unit	(million)	7.5	7.7	8.9	10.2
Consumption per unit	(lbs.)	11	15	28	40
Oilcake* consumption per unit	(lbs.)	25	34	63	91

		1964	1965	1966
Protein consumption	('000 tonnes)	163.7	272.3	413.4
Protein consumption	(million lbs.)	360.1	599.1	909.5
Protein consuming units	(million)	9.4	9.5	10.4
Consumption per unit	(lbs.)	38	63	87
Oilcake* consumption per unit	(lbs.)	86	143	198

Source: 1) Spain Table - I.
* In terms of 44 percent protein content.

SUPPLY-DISTRIBUTION

16. SWEDEN

Sweden

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	--	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	550	1180	1440	1030	1790	1870*	820*	2110*
Linseed	30	20	10	-	-	2+	1+	1+
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	580	1200	1450	1030	1790	1872	821	211

* ISTA OILWORLD (Hamburg)

\+ Foreign Agriculture Circular, U.S. Department of Agriculture.

Sweden

TABLE - B : IMPORTS OF OILSEED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	30	110	1*	-	52*	2*	2*
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	10	4+	4+	8+	10	2+	4+	3+
Sesamum	-	-	-	-	-	-	-	-
Copra	680	820	320	620	570	694*	719*	671*
Others	-	-	-	-	-	-	-	-
Total	690	854	434	629	580	748	725	676

* ISTA OILWORLD (Hamburg)

\+ Foreign Agriculture Circular, U.S. Department of Agriculture.

Sweden

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	250	70	150	300	490	732*	174*	215*
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Total	250	70	150	300	490	732	174	215

* ISTA OILWORLD (Hamburg)

Sweden

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	30	110	1	-	52	2	2
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	300	1110	1290	730	1300	1138	646	1895
Linseed	40	24	14	8	10	4	5	4
Sesamum	-	-	-	-	-	-	-	-
Copra	680	820	320	620	570	694	719	671
Total	1020	1984	1734	1359	1880	1888	1372	2572

Source: Derived from Tables A, B & C.

Sweden

TABLE - E : OILCAKE EQUIVALENT OF OILSEED CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	23	86	-	-	41	1	1
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	165	610	709	401	715	625	355	1042
Linseed	25	15	8	5	6	2	3	2
Sesamum	-	-	-	-	-	-	-	-
Copra	238	287	112	217	199	242	251	234
Total	428	935	915	623	920	910	610	1279

Source: Derived from Table D.

Sweden

TABLE - F : IMPORTS OF OILCAKES & MEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	294	369	369	432	445	538	658	471
Soyabean	1422	930	1067	1149	1480	1684	1848	1731
Cottonseed	544	577	640	789	881	1108	1135	1032
Sunflowerseed	83	97	52	43	5	42	149	131
Rape/Mustard	17	100	58	6	4	-	121	52
Linseed	39	15	29	30	27	37	24	21
Sesamum	-	-	-	-	-	-	-	-
Copra	74	128	169	171	355	391	309	346
Others	14	5	12	16	14	3	8	4
Total	2487	2221	2396	2636	3211	3803	4252	3838

Sweden

TABLE - G : EXPORTS OF OILCAKE & MEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	1	1	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	3	-	-	-	-	-	16	-
Sesamum	-	-	-	-	-	-	-	-
Copra	12	27	11	26	7	1	11	3
Others	-	-	-	-	-	4	-	-
Total	15	27	11	26	7	6	28	3

Sweden

TABLE - H : NET AVAILABILITY OF OILCAKES AND MEAL & NET AVAILABILITY OF FISHMEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	294	369	369	432	445	538	658	471
Soyabean	1422	953	1153	1149	1480	1725	1849	1732
Cottonseed	544	577	640	789	831	1107	1134	1032
Sunflowerseed	83	97	52	43	5	42	149	181
Rape/Mustard	182	710	767	407	719	625	476	1094
Linseed	61	30	37	35	33	39	11	24
Sesamum	-	-	-	-	-	-	-	-
Copra	300	388	270	362	547	632	549	577
Others	14	5	12	16	14	- 1	8	4
Total	2900	3129	3300	3233	4124	4707	4834	5114
Fishmeal	300	388	270	362	547	633	550	581

Source: Derived from Tables E, F & G.

Sweden

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES & MEAL (INCLUDING FISH MEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	152	191	191	224	231	279	342	244
Soyabean	654	438	530	523	680	793	850	796
Cottonseed	223	236	262	323	361	453	464	423
Sunflowerseed	30	35	19	15	1	15	55	66
Rape/Mustard	65	255	276	146	258	225	171	393
Linseed	21	10	13	12	11	14	3	8
Copra	66	85	59	79	120	139	120	126
Fishmeal	114	144	155	194	257	293	328	363
Others	5	1	4	5	5	-	2	1
Total	1330	1395	1509	1526	1924	2211	2335	2420

Source: Derived from H. Raw Protein % are taken from ISTA, OILWORLD, Semi-Annual, May 1967.

Commonwealth Economic Committee
(1) Vegetable Oils and Oilseeds: A Review, op.cit.
(2) Commonwealth Secretariate Tropical Products Quarterly op.cit.
(3) ISTA, Mielke & Co, Hamburg (a) Oilworld Semi-Annual
(b) Oilworld Quarterly
(c) Oilworld Weekly.
(4) United States Department of Agriculture, Publications.

Sweden

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	2.5	2.6	2.7	2.4
Hogs on farms	(million)	1.9	2.0	2.1	1.8
Eggs Production	(million doz.)	138	131	134	137
Poultry meat Production	(million lbs.)	26.9	29.1	29.1	31.4

	Unit	1964	1965	1966
Cattle on farms	(million)	2.3	2.3	2.2
Hogs on farms	(million)	1.9	1.9	1.9
Eggs Production	(million doz.)	141	136	133
Poultry meat Production	(million lbs.)	42.6	44.8	44.8[c]

Source: Commonwealth Economic Committee, Meat, Dairy Produce, H.M.S.O., London (Various Issues).

Sweden

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS

1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	1.2	1.3	1.3	1.2
Hogs	(million)	0.9	1.0	1.0	0.9
Eggs	(million doz.)	1.0	0.9	1.0	1.0
Poultry meat	(million lbs.)	0.1	0.1	0.1	0.1
Total		3.2	3.3	3.4	3.2

	Unit	1964	1965	1966
Cattle	(million)	1.1	1.1	1.1
Hogs	(million)	0.9	0.9	0.9
Eggs	(million doz.)	1.0	1.0	0.9
Poultry meat	(million lbs.)	0.2	0.2	0.2
Total		3.2	3.2	3.1

Source: Annexure Table I (See note on methodology for converting livestock into high protein consuming animal units).

Sweden

TABLE - L : APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Protein consumption.	('000 tonnes)	133.0	139.5	150.9	152.6
Protein consuming unit	(million lbs.)	292.6	306.9	332.0	335.7
Protein consuming unit	(million)	3.2	3.3	3.4	3.2
Consumption per unit	(lbs.)	91	94	98	105
Oilcake* consumption per unit.	(lbs.)	207	214	223	239

	Unit	1964	1965	1966
Protein consumption	('000 tonnes)	192.4	221.1	233.5
Protein consuming unit	(million lbs.)	423.3	486.4	513.7
Protein consuming unit	(million)	3.2	3.2	3.1
Consumption per unit	(lbs.)	132	152	166
Oilcake* consumption per unit	(lbs.)	300	345	377

Source: Sweden Table I, Annexure Table J & K.

* In terms of 44% Protein content.

SUPPLY-DISTRIBUTION

17. SWITZERLAND

SWITZERLAND

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	102	91	122	122	132	140+	140+	140+
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	102	91	122	122	132	140	140	140

+ Foreign Agriculture Circular : U.S. Department of Agriculture.

SWITZERLAND

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	518	904	742	660	762	709+	774+	774c
Soyabean	122	10	91	-	10	10c	10c	10c
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	10	10	10	20	10	10c	10c	
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	122	51	71	71	112	92+	158+	103+
Sesamum	10	-	10	-	10	10c	10c	-
Palm Kernel	20	30	30	40	30	35	35c	35c
Copra	325	203	112	122	224	156+	117+	117c
Total	1127	1208	1066	913	1158	1012	1104	1039

+ Foreign Agricultural Circular, U.S. Department of Agriculture, Washington.

SWITZERLAND

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-

SWITZERLAND

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	518	904	742	660	762	709	774	774
Soyabean	122	10	91	-	10	10	10	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	10	10	10	20	10	10	10	-
Rape/Mustard	102	91	122	122	132	140	140	140
Linseed	122	51	71	71	112	92	158	103
Sesamum	10	-	10	-	10	10	10	-
Palm Kernel	20	30	30	40	30	35	35	35
Copra	325	203	112	122	224	156	117	117
Total	1229	1299	1188	1035	1290	1162	1254	1179

Source : Derived from Tables - A, B & C.

SWITZERLAND

TABLE - E : OILCAKE EQUIVALENT OF OILSEED CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	290	506	415	369	426	397	433	433
Soyabean	96	7	71	-	7	7	7	7
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	6	6	6	13	6	6	6	-
Rape/Mustard	56	50	67	67	72	77	77	77
Linseed	78	32	45	45	71	58	101	65
Sesamum	5	-	5	-	5	5	5	-
Palm Kernel	10	15	15	20	15	18	18	18
Copra	113	71	39	42	78	54	40	40
Total	654	687	663	556	680	622	687	640

Source : Derived from Table - D.

SWITZERLAND

TABLE - F : IMPORTS OF OILCAKE & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-.	25	52	50	80	191	215
Soyabean	-.	-	275	585	500	430	570	810
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	5	2	15	3	2	2
Others	-	-	23	57	128	229	347	128
Total	-	-	328	696	693	742	1110	1155

SWITZERLAND

TABLE - G : EXPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	20	1	-	5	1	2
Soyabean	-	-	10	1	1	5	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	25	2	1	1	5	3
Others	-	-	10	2	2	30	25	25
Total	-	-	65	6	4	41	31	30

SWITZERLAND

TABLE - H NET AVAILABILITY OF OILCAKES & MEALS AND NET AVAILABILITY OF FISHMEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	290	506	420	420	476	472	623	646
Soyabean	96	7	336	584	506	432	577	817
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	6	6	6	13	6	6	6	-
Rape/Mustard	56	50	67	67	72	77	77	77
Linseed	78	32	45	45	71	58	101	65
Sesamum	5	-	5	-	5	5	5	-
Palm Kernel	10	15	15	20	15	18	18	18
Copra	113	71	19	42	92	56	37	39
Others	-	-	13	55	126	199	322	103
Total	654	687	926	1246	1369	1323	1766	1765
Fish Meal	276	248	285	291	384	456	408	502

Source : Derived from Tables - E, F & G.

SWITZERLAND

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES & MEALS

(INCLUDING FISH MEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	150	263	218	218	247	245	323	335
Soyabean	44	3	154	268	232	198	265	375
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	2	2	2	4	2	2	2	-
Rape/Mustard	20	18	24	24	25	27	27	27
Linseed	28	11	16	16	25	20	36	23
Sesamum	2	-	2	-	2	2	2	-
Palm Kernel	1	2	2	3	2	3	3	3
Copra	24	15	4	9	20	12	8	8
Fish Meal	179	161	185	189	250	296	265	326
Others	-	-	4	20	46	73	119	38
Total	450	475	611	751	851	878	1050	1135

Source : Derived from Table - H : Raw protein % are taken from ISTA Oil-world, Semi-annual, May 1967.

Commonwealth Economic Committee

1) Vegetable Oils and Oilseeds : A Review op. cit.
2) Commonwealth Secretariate Tropical Products Quarterly op. cit.
3) ISTA, Mielke & Co., Hamburg, a) Oilworld, Semi-annual
   b) Oilworld, Quarterly
   c) Oilworld, Weekly
4) United States Department of Agriculture, Publications.

SUPPLY-DISTRIBUTION

18. EASTERN EUROPE

EXCLUDING U.S.S.R.

EASTERN EUROPE
EXCLUDING U.S.S.R.

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	20	20	20	10	10	-	-	-
Soyabean	393	162	141	121	141	111	111	-
Cottonseed	441	181	331	321	331	326	326	-
Sunflowerseed	10315	10058	10955	11986	12291	13682	15054	-
Rape/Mustard	4074	5501	5877	4016	5032	7974	7425	-
Linseed	929	1010	1040	1070	949	1440	1292	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	16172	16932	18364	17524	18754	23533	24208	-
Castorseed	361	281	181	191	171	141	41	-

EASTERN EUROPE
EXCLUDING U.S.S.R

TABLE - B : IMPORT OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	381	773	872	934	885	850	856	-
Soyabean	1426	664	381	553	592	1155	788	-
Cottonseed	220	280	100	320	150	250	250	-
Sunflowerseed	470	480	460	670	780	650	590	-
Rape/Mustard	20	20	40	141	244	547	110	-
Linseed	373	453	374	583	353	621	496	-
Sesamum	40	30	-	10	30	20	20	-
								-
Palm kernel	334	162	213	183	142	291	63	-
Copra	101	70	142	131	131	121	121	-
Total	3365	2932	2582	3526	3307	4505	3294	-

EASTERN EUROPE
EXCLUDING U.S.S.R.

TABLE - C : EXPORT OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	10	-	-	40	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	120	50	50	50	50	50	50	-
Sunflowerseed	1130	970	1180	610	1410	1460	2074	-
Rape/Mustard	10	30	263	81	60	447	871	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	1331	1050	1493	781	1520	1957	2995	-
Castorseed	61	-	-	-	-	-	-	-

EASTERN EUROPE
EXCLUDING U.S.S.R.

TABLE - D : OIL SEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	391	793	892	904	895	850	856	-
Soyabean	1819	826	522	674	733	1266	899	-
Cottonseed	541	411	381	591	431	526	526	-
Sunflowerseed	9655	9568	10235	12046	11661	12872	13570	-
Rape/Mustard	4084	5491	5654	4076	5216	8074	6664	-
Linseed	1302	1463	1414	1653	1302	2061	1788	-
Sesamum	40	30	-	10	30	20	20	-
Palm Kernel	334	162	213	183	142	291	63	-
Copra	101	70	142	131	131	121	121	-
Total	18267	18814	19453	20268	20541	26081	24507	-
Casterseed	301	281	181	191	171	141	41	-

EASTERN EUROPE
EXCLUDING U.S.S.R.

TABLE - E : OILCAKE EQUIVALENT OF OILSEED CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	218	444	499	506	501	476	479	-
Soyabean	1437	652	412	532	579	1000	710	-
Cottonseed	227	172	160	248	181	220	220	-
Sunflowerseed	6468	6410	6857	8070	7812	8624	9091	-
Rape/Mustard	2246	3020	3109	2241	2868	4440	3665	-
Linseed	833	936	904	1057	833	1319	1144	-
Sesamum	20	15	-	5	15	10	10	-
Palm Kernel	173	84	110	95	73	151	32	-
Copra	35	24	49	45	45	42	42	-
Total	11657	11757	12100	12799	12907	16282	15393	-

EASTERN EUROPE
EXCLUDING U.S.S.R.

TABLE - F : IMPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	2553	3570	5050	4511	3873	-
Soyabean	-	-	390	605	1713	1681	1611	-
Cottonseed	-	-	341	513	831	1080	1125	-
Sunflowerseed	-	-	184	174	333	264	95	-
Rape/Mustard	-	-	5	-	10	25	-	-
Linseed	-	-	189	135	196	78	88	-
Sesamum	-	-	-	--	-	-	--	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	7	-	2	-	1	-
Others	-	-	42	39	179	337	374	-
Total	-	-	3711	5036	8314	7976	7167	-

EASTERN EUROPE
EXCLUDING U.S.S.R

TABLE - G : EXPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	65	7	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	100	202	222	280	280[e]	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	-	-	26	33	27	23	23[c]	-
Total	-	-	126	300	256	303	303	-

EASTERN EUROPE
EXCLUDING U.S.S.R.

TABLE - H : NET AVAILABILITY OF OILCAKES & MEALS AND NET AVAILABILITY OF FISHMEAL

('00 tonnes)

	1960*	1961*	1962	1963	1964	1965	1966	1967
Groundnut	213	439	3048	4008	5541	4985	4351	-
Soyabean	1434	650	799	1135	2289	2678	2318	-
Cottonseed	226	171	400	558	789	1020	1065	-
Sunflowerseed	6466	6408	7040	8243	8143	8886	9090	-
Rape/Mustard	2244	3018	3113	2251	2876	4463	3663	-
Linseed	831	933	1092	1191	1026	1394	1230	-
Sesamum	20	15	-	5	15	10	10	-
Palm Kernel	172	83	110	94	73	150	32	-
Copra	34	24	52	45	47	41	42	-
Others	-	-	16	6	152	314	351	-
Total	11640	11741	15664	17536	20951	23941	22125	-
Fishmeal	346	682	1529	1991	2539	3027	3191	-

* Figures for these years relate to domestic production only.

EASTERN EUROPE
EXCLUDING U.S.S.R.

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES MEAL (INCLUDING FISHMEAL)

('00 tonnes)

	1960*	1961*	1962	1963	1964	1965	1966	1967
Groundnut	110	228	1585	2084	2881	2592	2262	-
Soyabean	660	299	368	522	1053	1232	1066	-
Cottonseed	93	70	164	229	323	418	437	-
Sunflowerseed	2392	2371	2605	3050	3013	3288	3363	-
Rape/Mustard	808	1086	1121	810	1035	1607	1319	-
Linseed	299	336	393	429	369	508	443	-
Sesamum	8	6	-	2	6	4	4	-
Palm Kernel	31	15	20	17	13	27	6	-
Copra	7	5	11	10	10	9	9	-
Fish Meal	225	443	994	1284	1650	1967	2074	-
Others	-	-	6	2	56	116	130	-
Total	4633	4859	7267	8449	10409	11762	11113	-

Source : Supply - distribution Table, Bulgaria, Czechoslavaka Germany D.R., Hungary, Poland, Rumania & Yugoslavia.

Figures for these years relate to domestic production only.

EASTERN EUROPE
EXCLUDING U.S.S.R

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	25.0	26.1	26.7	26.3
Hogs on farms	(million)	37.6	39.6	38.5	35.7
Eggs production	(million doz)	1230.0	1288.0	1235.0	1254.0
Poultry meat production	(million lbs)	783.2	816.9	837.5	857.2

	Unit	1964	1965	1966
Cattle on farms	(million)	26.2	26.3	27.2
Hogs on farms	(million)	38.9	42.2	38.9
Eggs production	(million doz)	1365.0	1444.0	1444.0
Poultry meat production	(million lbs)	923.3	963.1	971.8

EASTERN EUROPE
EXCLUDING U.S.S.R.

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS 1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	12.3	13.0	13.2	13.0
Hogs	(million)	18.8	19.7	19.2	17.8
Eggs	(million doz)	7.7	9.1	8.8	8.9
Poultry meat	(million lbs)	3.4	3.7	3.6	3.9
Total		42.2	45.5	44.8	43.6

	Unit	1964	1965	1966
Cattle	(million)	12.9	13.1	13.6
Hogs	(million)	19.3	21.0	19.3
Eggs	(million doz)	9.7	10.2	10.2
Poultry Meat	(million lbs)	4.1	4.3	4.3
Total		46.0	48.6	47.4

EASTERN EUROPE**
EXCLUDING U.S.S.R.

TABLE - L : APPRENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960@	1961@	1962	1963
Protein consumption	('000 tonnes)	259.8	303.9	537.6	633.2
Protein consumption	(million lbs.)	571.6	668.6	1182.7	1393.0
Protein consuming units.	(million)	42.2	45.5	44.8	43.6
Consumption per unit	(lbs.)	14	15	26	32
Oilcake* consumption per unit.	(lbs.)	32	34	59	73

	Unit	1964	1965	1966
Protein consumption	('000 tonnes)	822.7	919.0	853.6
Protein consumption	(million lbs.)	1809.9	2021.8	1877.9
Protein consuming unit	(million)	46.0	48.6	47.4
Consumption per unit	(lbs.)	39	42	40
Oilcake* consumption per unit.	(lbs.)	89	95	91

** Includes Czechoslavakia, Poland, East Germany, Hungary & Yugoslavia.

* In terms of 44% protein content.

@ Figures for these years relate to domestic production only.

SUPPLY-DISTRIBUTION

19. BULGARIA

BULGARIA

TABLE - A: PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut u/	20	20	20	10	10	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	380	140	290	260	280	270	270 c	-
Sunflowerseed	3440	3010	3540	3360	3370	3570 +	4210 +	-
Rape/Mustard	50	150	60	10	50	30	30 c	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	3890	3320	3910	3640	3710	3870	4510	-

+ Foreign Agriculture Circular: U.S. Department of Agriculture.

BULGARIA

TABLE - B : IMPORT OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	150	50	40	45	45[c]	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	150	50	40	45	45[c]	-

BULGARIA

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	10	-	-	40	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	120	50	50	50 C	50 C	50 C	50 C	-
Sunflowerseed	820	440	920	330	1120	910 *	1310 *	1350 *
Rape/Mustard	10	10	50	20	30	20	20	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	960	500	1020	440	1200	980	1380	1350

BULCARIA

TABLE - D: OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	4	14	164	17	47	45	45	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	260	90	240	210	230	220	220	-
Sunflowerseed	2620	2570	2620	3030	2250	2660	2900	-1350
Rape/Mustard	40	140	10	-10	20	10	10	..
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	..	..	-
Total	2924	2814	3034	3247	2547	2935	3175	-1350

Source: Derived from Table - A, B & C.

BULGARIA

TABLE - E: OILCAKE EQUIVALENT OF OILSEED CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	2	7	91	9	26	25	25	-
Soyabean		-	-	-	-	-	-	-
Cottonseed	109	37	100	88	96	92	92	-
Sunflowerseed	1755	1721	1755	2030	1507	1782	1943	-904
Rape/Mustard	22	77	5	-5	11	5	5	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	1888	1842	1951	2122	1640	1904	2065	-904

Source: Derived from Table - D.

BULGARIA

TABLE - F : IMPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	31	54	181	89	90+	-
Soyabean	-	-	-	-	136	93	142+	-
Cottonseed	-	-	-	-	11	108	-	-
Sunflowerseed	-	-	19	29	255	120	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	2	6	11	11+	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	-	-	-	6	10	15	-	-
Total	-	-	50	91	649	436	243	-

+ Foreign Agriculture Circular : U.S. Department of Agriculture.

BULGAIRA

TABLE - G : EXPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-

BULGARIA

TABLE - H: NET AVAILABILITY OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	2	7	122	63	207	114	115	-
Soyabean	-	-	-	-	136	93	142	-
Cottonseed	109	37	100	88	107	200	92	-
Sunflowerseed	1755	1721	1774	2059	1762	1902	1943	-904
Rape/Mustard	22	77	5	-5	11	5	5	-
Linseed	-	-	-	2	6	11	11	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	-	-	-	6	10	15	-	-
Total	1883	1842	2001	2213	2239	2340	2308	-904

Source: Derived from Table - H.

BULGARIA

TABLE - I: RAW PROTEIN EQUIVALENT OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	1	3	63	32	107	59	59	-
Soyabean	-	-	-	-	62	42	65	-
Cottonseed	44	15	41	36	43	82	37	-
Sunflowerseed	649	636	656	761	651	703	718	-334
Rape/Mustard	7	27	1	-1	3	1	1	-
Linseed	-	-	-	-	2	3	3	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	701	681	761	830	871	895	883	-334

Source: Derived from Table H: Raw protein percent are taken from ISTA Oilworld Semi Annual, May 1967.

Commonwealth Economic Committee

1) Vegetable oils and oilseeds: A Review op. cit
2) Commonwealth Secretariat Tropical Products Quarterly Op.cit.
3) ISTA, Mileke & Co., Hamburg a) Oilworld Semi-annual
   b) Oilworld Quarterly
   c) Oilworld Weekly.
4) United States Department of Agriculture: Publications.

SUPPLY-DISTRIBUTION

20. CZECHOSLOVAKIA

CZECHOSLOVAKIA

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	550	840	520	410	460	740	780	770
Linseed	150	140	140	150	150	150	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	700	980	660	560	610	890	780	770

CZECHOSLOVAKIA

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	290	530	340	480	460*	410*	400*	400*
Soyabean	440	260	230	210	260	250*	260*	160*
Cottonseed	220	280	100	320	150	250*	250*	210*
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	20	20	40	140	170*	370*	80*	100*
Linseed	120	180	130	240	80	360	260	100
Sesamum	30	20	-	-	10	-	-	-
Palm Kernel	60	40	50	10	10	10c	10c	10c
Copra	50	60	50	70	70	70	70c	-
Total	1230	1390	940	1470	1210	1720	1330	980

* ISTA Oilworld, Hamburg.

CZECHOSLOVAKIA

TABLE - C : IMPORT OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-

CZECHOSLOVAKIA

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	290	530	340	480	460	410	400	400
Soyabean	440	260	230	210	260	250	260	160
Cottonseed	220	280	100	320	150	250	250	210
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	570	860	560	550	630	1110	860	870
Linseed	270	320	270	390	230	510	260	100
Sesamum	30	20	-	-	10	-	-	-
Palm Kernel	60	40	50	10	10	10	10	10
Copra	50	60	50	70	70	70	70	-
Total	1930	2370	1600	2030	1820	2610	2110	1750

Source : Derived from Table - A, B & C.

CZECHOSLOVAKIA

TABLE - E : OILCAKE EQUIVALENT OF OILSEED CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	162	296	190	268	257	229	224	224
Soyabean	347	205	181	165	205	197	205	126
Cottonseed	92	117	42	134	63	105	105	88
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	313	473	308	302	346	610	473	478
Linseed	172	204	172	249	147	326	166	64
Sesamum	15	10	-	-	5	-	-	-
Palm Kernel	31	20	26	5	5	5	5	5
Copra	17	21	17	24	24	24	24	-
Total	1149	1346	936	1147	1052	1496	1202	985

Source : Derived from Table - D.

CZECHOSLOVAKIA

TABLE - F : IMPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	141	545	985	821	819	-
Soyabean	-	-	7	-	141	90	-	-
Cottonseed	-	-	287	398	532	730	819	-
Sunflowerseed	-	-	94	52	20	20	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	-	-	31	33	88	23	-	-
Total	-	-	560	1028	1766	1684	1638	-

CZECHOSLOVAKIA

TABLE - G : EXPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	65	7	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	100	202	222	280	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	-	-	26	33	27	23	-	-
Total	-	-	126	300	256	303	-	-

CZECHOSLOVAKIA

TABLE - H : NET AVAILABILITY OF OILCAKES & MEALS AND NET AVAILABILITY OF FISHMEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	162	296	331	748	1235	1050	1043	224
Soyabean	347	205	188	165	346	287	205	126
Cottonseed	92	117	229	330	373	555	924	88
Sunflowerseed	-	-	94	52	20	20	-	-
Rape/Mustard	313	473	308	302	346	610	473	478
Linseed	172	204	172	249	147	326	166	64
Sesamum	15	10	-	-	5	-	-	-
Palm Kernel	31	20	26	5	5	5	5	5
Copra	17	21	17	24	24	24	24	-
Others	-	-	5	-	61	-	-	-
Total	1149	1346	1370	1875	2562	2877	2840	985
Fish Meal	82	115	162	426	607	729	750	870

Source : Derived from Table - E, F & G.

CZECHOSLOVAKIA

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES AND MEAL (INCLUDING FISHMEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	84	153	172	388	642	546	542	116
Soyabean	159	94	86	75	159	132	94	57
Cottonseed	37	47	93	135	152	227	378	36
Sunflowerseed	-	-	34	19	7	7	-	-
Rape/Mustard	112	170	110	108	124	219	170	172
Linseed	61	73	61	89	52	117	59	23
Sesamum	6	4	-	-	2	-	-	-
Palm Kernel	5	3	4	-	-	1	-	-
Copra	3	4	3	5	5	5	5	-
Fishmeal	53	105	277	395	474	487	566	1
Others	-	-	1	-	22	-	-	-
Total	520	653	841	1214	1639	1740	1814	404

Source : Derived from Table H. Raw Protein % are taken from ISTA Oilworld, Semi-Annual, May 1967.

Commonsealth Economic Committee
1) Vegetable Oils and Oilseeds : A review op. cit.
2) Commonwealth Secretariat Tropical Products Quarterly op. cit.
3) ISTA, MIELKE & CO., Hamburg, a) Oilworld Semi-Annual
b) Oilworld Quarterly
c) Oilworld Weekly
4) United States Department of Agriculture : Publications.

CZECHOSLOVAKIA

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	4.3	4.4	4.5	4.5
Hogs on farms	(million)	5.8	5.9	6.0	5.7
Eggs production	(million doz)	189.0	196.0	198.0	210.0
Poultry meat production	(million lbs)	47.9	50.4	49.7	64.1

	Unit	1964	1965	1966
Cattle on farms	(million)	4.5	4.4	4.4
Hogs on farms	(million)	5.1	6.1	5.5
Eggs production	(million doz)	225.0	251.0	251.0[c]
Poultry meat production	(million lbs)	69.7	67.6	67.6

Source : Commonwealth Economic Committee, Meat, Dairy Produce H.M.S.O., London (Various Issues).

CZECHOSLOVAKIA

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS 1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	2.1	2.2	2.2	2.2
Hogs	(million)	2.9	2.9	3.0	2.8
Eggs	(million doz)	1.3	1.4	1.4	1.5
Poultry meat	(million lbs)	0.2	0.2	0.2	0.3
Total		6.5	6.7	6.8	6.8

	Unit	1964	1965	1966
Cattle	(million)	2.2	2.2	2.2
Hogs	(million)	2.5	3.0	2.7
Eggs	(million doz)	1.6	1.8	1.8
Poultry Meat	(million lbs)	0.3	0.3	0.3
Total		6.6	7.3	7.0

Source : Annexure Table I (See note on methodology for converting livestock into high protein consuming animal units).

CZECHOSLOVAKIA

TABLE - L : APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	52.0	65.3	84.1	121.4
Protein consuming unit	(million lbs)	114.4	143.7	185.0	267.1
Protein consuming units	(million)	6.5	6.7	6.8	6.8
Consumption per unit	(lbs)	18	21	27	39
Oilcake* consumption per unit	(lbs)	41	48	61	89

	Unit	1964	1965	1966
Protein consumption	('000 tonnes)	163.9	174.0	181.4
Protein consumption	(million lbs)	360.6	382.8	399.1
Protein consuming units	(million)	6.6	7.3	7.0
Consumption per unit	(lbs)	55	52	57
Oilcake* consumption per unit	(lbs)	125	118	129

Source : Czechoslovakia : Supply-distribution Table - I, Annexure Table J & K.

* : In terms of 44% protein content.

SUPPLY-DISTRIBUTION

21. GERMANY D.R.

GERMANY D.R.

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnses)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut u/	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	1800	1710	1630	1260	1730	2140*	2110*	-
Linseed	80	90	100	70	40	70	70	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	1880	1800	1730	1330	1770	2210	2180	-

GERMANY, D. R.

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	30	40	100	100	50	75	75[c]	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	430	430	460	670	780	650[+]	590[+]	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	90	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	460	470	560	860	830	725	665	-

GERMANY D.R.

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-

GERMANY D.R.

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	30	40	100	100	50	75	75	-
Soyaeban	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	430	430	460	670	780	650	590	-
Rape/Mustard	1800	1710	1630	1260	1730	2140	2110	-
Linseed	80	90	100	160	40	70	70	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	2340	2270	2290	2190	2600	2935	2845	-

Source : Derived from Table - A, B & C.

GERMANY D.R.

TABLE - E : OILCAKE EQUIVALENT OF OILSEEDS CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	16	22	56	56	28	42	42	-
Soyabean	-	-	-	-	--	-	-	-
Cottonseed	-	—	-	-	-	-	-	-
Sunflowerseed	288	288	308	448	522	435	395	-
Rape/Mustard	990	940	896	693	951	1177	1160	-
Linseed	51	57	64	102	25	44	44	-
Copra	-	-	-	-	-	-	-	-
Total	1345	1307	1324	1299	1526	1698	1641	-

Source : Derived from Table - D.

GERMANY D.R.

TABLE - F : IMPORTS OF OILCAKES & MEALS*

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-

* Please see country Report - East Germany.

GERMANY D.R.

TABLE - G : EXPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-

GERMANY D.R.

TABLE - H : NET AVAILABILITY OF OILCAKES & MEALS AND NET AVAILABILITY OF FISH MEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	16	22	56	56	28	42	42	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	288	288	308	448	522	435	395	-
Rape/Mustard	990	940	896	693	951	1177	1160	-
Linseed	51	57	64	102	25	44	44	-
Copra	-	-	-	-	-	-	-	—
Total	1345	1307	1324	1299	1526	1698	1641	-
Fish Meal	-	300	909	800	750	1050	1080	1000

Source : Derived from Table E, F & G.

GERMANY D.R.

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES AND MEAL (INCLUDING FISH MEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	18	11	29	29	14	21	21	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	106	106	113	165	193	160	146	-
Rape/Mustard	356	338	322	249	342	423	417	-
Linseed	18	20	23	36	9	15	15	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Fish Meal	-	195	591	520	487	682	702	-
Total	488	670	1078	999	1045	1301	1301	-

Source : Derived from table - H. Raw protein % are taken from ISTA Oilworld, Semi-Annual, May 1967.

1) Vegetable oils & oilseeds: A Review op. cit.
2) Commonwealth Secretariate Tropical products Quarterly, op. cit.
3) ISTA, MIELKE & CO, Hamburg a) Oilworld Semi-annual
   b) Oilworld Quarterly
   c) Oilworld Weekly
4) United States, Department of Agriculture: Publications.

GERMANY D.R.

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	4.7	4.8	4.7	4.7
Hogs on farms	(million)	7.6	8.6	7.3	8.0
Eggs production	(million doz)	293.0	300.0	258.0	271.0
Poultry meat production	(million lbs)	161.3	176.3	178.3	195.1

	Unit	1964	1965	1966
Cattle on farms	(million)	4.8	4.7	4.8
Hogs on farms	(million)	8.4	8.3	8.3[c]
Eggs production	(million doz)	308.0	328.0	328.0[c]
Poultry meat production	(million lbs)	197.3	196.4	196.4[c]

Source : Commonwealth Economic Committee, Meat, Dairy Product. H.M.S.O., London (Various Issues).

GERMANY D.R.

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS 1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	2.3	2.4	2.3	2.3
Hogs	(million)	3.8	4.3	3.6	4.0
Eggs	(million doz)	2.1	2.1	1.8	1.9
Poultry meat	(million lbs)	0.7	0.8	0.8	0.9
Total		8.9	9.6	8.5	9.1

	Unit	1964	1965	1966
Cattle	(million)	2.4	2.3	2.4
Hogs	(million)	4.2	4.1	4.1
Eggs	(million doz)	2.2	2.3	2.3
Poultry Meat	(million lbs)	0.9	0.9	0.9
Total		9.7	9.6	9.7

Source : Annexure Table - J (See note on methodology for converting livestock into high protein consuming animal units).

GERMANY D.R.

TABLE - L : APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	48.8	67.0	107.8	99.9
Protein consumption	(million lbs.)	107.4	147.4	237.2	219.8
Protein consuming units	(million)	8.9	9.6	8.5	9.1
Consumption per unit	(lbs.)	12	15	28	24
Oilcake* consumption per unit	(lbs.)	27	34	64	54

	Unit	1964	1965	1966
Protein consumption	('000 tonnes)	104.5	130.1	130.1
Protein consumption	(million lbs.)	229.9	286.2	286.2
Protein consuming units	(million)	9.7	9.6	9.7
Consumption per unit	(lbs.)	24	30	30
Oilcake* consumption per unit	(lbs.)	54	68	68

*In terms of 44% protein content.

SUPPLY-DISTRIBUTION

22. HUNGARY

HUNGARY

TABLE A: PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	20	10	30	20	20	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	680	1060	1310	1260	1140	750+	1020+	-
Rape/Mustard	30	90	40	50	80	-	-	-
Linseed	40	50	30	60	40	80	90	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	770	1210	1410	1390	1280	830	1110	-
Castorseed	20	20	20	10	-	-	-	-

+ Foreign Agriculture Circular: U.S. Department of Agriculture

HUNGARY

TABLE B: IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut a/	30	60	160	70	40	40*	40*	-
Soyabean	570	170	150	160	220	300*	240*	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	10	50	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	10	30	20	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	30	20	20	20	20	20[c]	20[c]	-
Copra	-	-	-	-	-	-	-	-
Total	650	330	350	250	280	360	300	-

* ISTA Oil World (Hamburg)

HUNGARY

TABLE C: EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	80	60	150	160	140	110+	150+	-
Rape/Mustard	-	-	-	20	30	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	80	60	150	180	170	110	150	-

+ Foreign Agriculture Circular: U.S. Department of Agriculture

HUNGARY

TABLE D: OILSEEDS AVAILABILITY FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	30	60	160	70	40	40	40	-
Soyabean	590	180	180	180	240	300	240	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	610	1050	1160	1100	1000	640	870	-
Rape/Mustard	30	90	40	30	50	-	-	-
Linseed	50	80	50	60	40	80	90	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	30	20	20	20	20	20	20	-
Copra	-	-	-	-	-	-	-	-
Total	1340	1480	1610	1460	1390	1080	1260	-

Source: Derived from Tables A, B & C.

HUNGARY

TABLE E: OILCAKE EQUIVALENT OF OILSEEDS CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	16	33	89	39	22	22	22	-
Soyabean	466	142	142	142	189	237	189	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	408	703	777	737	670	428	582	-
Rape/Mustard	16	49	22	16	27	-	-	-
Linseed	32	51	32	38	25	51	57	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	15	10	10	10	10	10	10	-
Copra	-	-	-	-	-	-	-	-
Total	953	988	1072	982	943	748	860	-

Source: Derived from Table D.

HUNGARY

TABLE F: IMPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966*	1967*
Groundnut	-	-	949	1154	1046	991	910+	-
Soyabean	-	-	129	207	399	404	186+	-
Cottonseed	-	-	54	115	285	236	273+	-
Sunflowerseed	-	-	71	93	58	124	-	-
Rape/Mustard	-	-	5	-	10	25	-	-
Linseed	-	-	-	48	68	57	64+	-
Sesamum	-	-	-	-	-	-	+	-
Copra	-	-	-	-	-	-	-	-
Others	-	-	11	-	-	-	-	-
Total	-	-	1219	1617	1866	1837	1433	-

* AGRIMPEX Data for 1966 and 1967 shows oilcake imports as being 195.6 and 203.0 thousand metric tons Groundnut meal (000 tons) 115.4 and 104.4, Soyabean meal 49.0 and 67.0 respectively.

HUNGARY

TABLE G: EXPORTS OF OILCAKE & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut								
Soyabean								
Cottonseed								
Sunflowerseed	N O T A V A I L A B L E							
Rape/Mustard								
Linseed								
Sesamum								
Copra								
Total								

HUNGARY

TABLE H: NET AVAILABILITY OF OILCAKES AND MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	16	33	1038	1193	1068	1013	932	-
Soyabean	466	142	271	349	588	641	375	-
Cottonseed	-	-	54	115	285	236	273	-
Sunflowerseed	408	703	848	830	728	553	583	-
Rape/Mustard	16	49	27	16	37	25	-	-
Linseed	32	51	32	86	93	108	121	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	15	10	10	10	10	10	10	-
Copra	-	-	-	-	-	-	-	-
Others	-	-	11	-	-	-	-	-
Total	953	988	2291	2599	2809	2583	2293	-

Source: Derived from Tables E, F & G

HUNGARY

TABLE I: RAW PROTEIN EQUIVALENT OF OILCAKES & MEALS (INCLUDING FISH MEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	8	17	539	620	555	526	484	-
Soyabean	214	65	124	160	270	294	172	-
Cottonseed	-	-	22	47	116	96	111	-
Sunflowerseed	150	260	313	307	269	204	215	-
Rape/Mustard	5	17	9	5	13	9	-	-
Linseed	11	18	11	30	33	38	43	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	2	1	1	1	1	1	1	-
Copra	-	-	-	-	-	-	-	-
Fishmeal	16	79	177	158	187	226	181	-
Others	-	-	4	-	-	-	-	-
Total	406	457	1200	1328	1444	1394	1207	-

Sources: (1) Vegetable Oils and Oilseeds: A Review, op-cit
(2) Commonwealth Secretariate Tropical Products Quarterly, op-cit
(3) ISIA, Mielke & Co. Hamburg. (a) Oilworld, Semi-Annual
(b) Oilworld Quarterly
(c) Oilworld Weekly
(4) United States Department of Agriculture Publications

HUNGARY

TABLE J: CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	2.0	2.0	2.0	1.9
Hogs on farms	(million)	5.4	5.9	6.4	5.4
Eggs production)	(million doz)	154.0	158.0	153.0	157.0
Poultry meat production	(million lbs)	288.6	286.3	303.1	289.6

	Unit	1964	1965	1966
Cattle on farms	(million)	1.9	2.0	2.0
Hogs on farms	(million)	6.4	7.0	5.8
Eggs production	(million doz)	185.0	199.0	199.0[c]
Poultry meat production	(million lbs)	314.7	314.7[c]	314.7[c]

Source: Commonwealth Economic Committee - Meat Dairy Produce
H.M.S.O. LONDON (Various Issues)

HUNGARY

TABLE K: HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS
1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	1.0	1.0	1.0	0.9
Hogs	(million)	2.7	2.9	3.2	2.7
Eggs	(million doz)	1.1	1.1	1.1	1.1
Poultry meat	(million lbs)	1.2	1.3	1.3	1.3
Total		6.0	6.3	6.6	6.0

	Unit	1964	1965	1966
Cattle	(million)	0.9	1.0	1.0
Hogs	(million)	3.2	3.5	2.9
Eggs	(million doz)	1.3	1.4	1.4
Poultry meat	(million lbs)	1.4	1.4	1.4
Total		6.8	7.3	6.7

Source: Annexure Table J (See note on methodology for converting livestock into high protein consuming animal units)

HUNGARY

TABLE L: APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	40.6	45.7	120.0	132.8
Protein consumption	(million lbs)	89.3	100.5	264.0	292.2
Protein consuming unit	(million)	6.0	6.3	6.6	6.0
Consumption per unit	(lbs)	15	16	40	49
Oilcake* consumption per unit	(lbs)	34	36	91	111

	Unit	1964	1965	1966
Protein consumption	('000 tonnes)	144.4	139.4	120.7
Protein consumption	(million lbs)	317.7	306.7	265.5
Protein consuming units	(million)	6.8	7.3	6.7
Consumption per unit	(lbs)	47	42	40
Oilcake* consumption per unit	(lbs)	107	95	91

* Source: Hungary: Supply-Distribution Table I,

* In terms of 44% Protein content Table J & K.

SUPPLY-DISTRIBUTION

23. POLAND

POLAND

TABLE - A : PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	1463	2570	3607	2266	2682	5039	4480	4369
Linseed	559	610	650	610	559	770*	732*	751
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	2022	3180	4257	2876	3241	5809	5212	5120

* Foreign Agriculture Circular. U.S.Department of Agriculture

POLAND

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	31	143	122	234	295	280*	296*	150*
Soyabean	416	234	1*	183	112	605*	288*	480*
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	1*	74*	177*	30*	-
Linseed	162	152	102	20	20	15*	14*	-
Sesamum	10	10	-	10	20	20[C]	20[C]	20*
Palm Kernel	244	102	102	143	112	261*	33*	60*
Copra	51	-	41	20	-	-	-	-
Total	914	641	368	611	633	1358	681	710

* ISIA (OILWORLD) Hamburg.

POLAND

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	20	213	41	-	427*	851*	1050*
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	20	213	41	-	427	851	1050

* ISTA Oilworld : (Hamburg)

POLAND

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	31	143	122	234	295	280	296	150
Soyabean	416	234	1	183	112	605	288	480
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	1463	2550	3394	2226	2756	4789	3659	3319
Linseed	721	762	752	630	579	785	746	751
Sesamum	10	10	-	10	20	20	20	20
Palm Kernel	244	102	102	143	112	261	33	60
Copra	51	-	41	20	-	-	-	-
Total	2936	3801	4412	3446	3874	6740	5042	4780

Source : Derived from Tables A, B & C.

POLAND

TABLE - E : OILCAKE EQUIVALENT OF OILSEEDS CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	17	80	68	131	165	156	165	84
Soyabean	328	184	-	144	88	477	227	379
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	804	1402	1866	1224	1515	2633	2012	1825
Linseed	461	487	481	403	370	502	477	480
Sesamum	5	5	-	5	10	10	10	10
Palm Kernel	126	53	53	74	58	135	17	31
Copra	17	-	14	7	-	-	-	-
Total	1758	2211	2482	1988	2206	3913	2908	2809

Source : Derived from Table - D.

POLAND

TABLE - F : IMPORTS OF OILCAKES & MEALS*

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	80+	20+	-	29+	-	304+	366+	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	80	20	-	29	-	304	366	-

\+ Foreign Agriculture Circular : U.S.Department of Agriculture.

* Polish Trade Year Books show imports of oilcakes for the years 1964 to 1967 as being (in '000 metric tons) 164.7; 157.8; 184.1 and 215.5 respectively.

POLAND

TABLE - G : EXPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut								
Soyabean								
Cottonseed								
Sunflowerseed								
Rape/Mustard	Not Available							
Linseed								
Sesamum								
Palm Kernel								
Copra								
Total								

POLAND

TABLE - H : NET AVAILABILITY OF OILCAKES & MEALS* AND NET AVAILABILITY OF FISH MEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	17	80	68	131	165	157	166	84
Soyabean	408	204	-	173	88	781	593	379
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	804	1402	1866	1224	1515	2633	2012	1825
Linseed	461	487	481	403	370	502	477	480
Sesamum	5	5	-	5	10	10	10	10
Palm Kernel	126	53	53	74	58	135	17	31
Copra	17	-	14	7	-	-	-	-
Total	1838	2231	2482	2017	2206	4217	3274	2809
Fish Meal	132	107	157	288	556	629	672	820

Source: Derived from Table E, F & G.

* Figures not adjusted for data obtained through Trade Year Book of Poland.

POLAND

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES AND MEALS INCLUDING FISHMEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	8	41	35	68	85	81	85	43
Soyabean	187	93	-	79	40	359	272	174
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	289	504	671	440	545	947	724	657
Linseed	165	175	173	145	133	180	171	172
Sesamum	2	2	-	2	4	4	4	4
Palm Kernel	22	9	9	13	10	24	3	5
Copra	3	-	3	1	-	-	-	-
Fish Meal	86	69	102	187	361	409	437	-
Total	762	893	993	935	1178	2004	1996	1055

Source : Derived from Table H Raw Protein % are taken from ISTA OIL WORLD, Semi-Annual, May 1967

Commonwealth Economic Committee:

1. Vegetable oils and Oilseeds : A Review, op.cit
2. Commonwealth Secretariate Tropical Products Quarterly Op.cit
3. ISTA. Mielke & Co. Hamburg (a) Oilworld, Semi-Annual
   (b) Oilworld, Quarterly
   (c) Oilworld, Weekly
4. United States, Department of Agriculture, Publications.

POLAND

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960 - 66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	8.7	9.2	9.6	9.8
Hogs on farms	(million)	12.6	13.4	13.6	11.6
Eggs production	(million doz.)	466.0	512.0	508.0	479.0
F ultry meat production	(million lbs.)	137.3	156.1	165.3	160.6

	Unit	1964	1965	1966
Cattle on farms	(million)	9.9	10.0	10.4
Hogs on farms	(million)	12.9	13.8	14.2
Eggs Production	(million doz.)	503.0	520.0	520.0[c]
Poultry meat Production	(million lbs.)	180.3	198.5	207.2

Source : Commonwealth Economic Committee, Meat, Dairy Produce H.M.S.O, London (Various issues)

POLAND

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS

1960 - 66

	Unit	1960	1961	1962	1963
Cattle	(million)	4.3	4.6	4.8	4.9
Hogs	(million)	6.3	6.7	6.8	5.8
Eggs	(million doz.)	2.3	3.6	3.6	3.4
Poultry meat	(million lbs.)	0.6	0.7	0.7	0.7
Total		13.5	15.6	15.9	14.8

	Unit	1964	1965	1966
Cattle	(million)	4.9	5.0	5.2
Hogs	(million)	6.4	6.9	7.1
Eggs	(million doz.)	3.6	3.7	3.7
Poultry Meat	(million lbs.)	0.8	0.9	0.9
Total		15.7	16.5	16.9

Source : Annexure Table J. (See note on methodology for converting livestock into high protein consuming animal units.)

POLAND

TABLE - L : APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960 - 66

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	76.2	89.3	99.3	93.5
Protein consuming unit	(million lbs.)	167.6	196.5	218.5	205.7
Protein consuming units	(million)	13.5	15.6	15.9	14.8
Consumption per unit	(lbs.)	12	13	14	14
Oilcake* consumption per unit	(lbs.)	27	29	32	32

	Unit	1964	1965	1966
Protein consumption	('000 tonnes)	117.8	200.4	169.6
Protein consumption	(million)	259.2	440.8	373.1
Protein consuming units	(million)	15.7	16.5	16.9
Consumption per unit	(lbs.)	16	27	22
Oilcake* consumption per unit	(lbs.)	36	61	50

Source : Poland : Supply - Distribution Table I, Annexure Table J&K.
* In terms of 44% protein content.

SUPPLY-DISTRIBUTION

24. RUMANIA

RUMANIA

TABLE - A: PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	120	50	30	30	30	30[c]	30[c]	-
Cottonseed	10	-	-	-	-	-	-	-
Sunflowerseed	5210	4820	4500	5060	5180	6710	7000*	-
Rape/Mustard	110	50	-	-	-	-	-	-
Linseed	100	120	120	180	160	370	400	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	5550	5040	4650	5270	5370	7110	7430	-
Castorseed	260	200	110	140	130	100	-	-

* ISTA Oilworld (Hamburg)

RUMANIA

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut								
Soyabean								
Cottonseed								
Sunflowerseed								
Rape/Mustard				N o t		A v a i l a b l e		
Linseed								
Sesamum								
Copra								
Total								

RUMANIA

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	200	460	100	100	100	350 +	600 +	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	200	460	100	100	100	350	600	-

+ Foreign Agriculture Circular, U.S.Department of Agriculture.

RUMANIA

TABLE - D: OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	120	50	30	30	30	30	30	-
Cottonseed	10	-	-	-	-	-	-	-
Sunflowerseed	5010	4360	4400	4960	5080	6360	6400	-
Rape/Mustard	110	50	-	-	-	-	-	-
Linseed	100	120	120	180	160	370	400	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	5350	4580	4550	5170	5270	6760	6830	-
Castorseed	260	200	110	140	130	100	-	-

Source: Derived from Tables A, B & C.

RUMANIA

TABLE - E: OILCAKE EQUIVALENT OF OILSEEDS CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	94	39	23	23	23	23	23	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	3356	2921	2948	3323	3403	4261	4288	-
Rape/Mustard	60	27	-	-	-	-	-	-
Linseed	64	76	76	115	102	236	256	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	3578	3063	3047	3461	3528	4520	4567	-

Source: Derived from Table - D.

RUMANIA

TABLE - F : IMPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut								
Soyabean								
Cottonseed								
Sunflowerseed								
Rape/Mustard				N o t	A v a i l a b l e			
Linseed								
Sesamum								
Copra								
Total								

RUMANIA

TABLE - G : EXPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut								
Soyabean								
Cottonseed								
Sunflowerseed								
Rape/Mustard			N o t		A v a i l a b l e			
Linseed								
Sesamum								
Copra								
Total								

RUMANIA

TABLE - H: NET AVAILABILITY OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	94	39	23	23	23	23	23	-
Cottonseed	4	-	-	-	-	-	-	-
Sunflowerseed	3356	2921	2948	3323	3403	4261	4288	-
Rape/Mustard	60	27	-	-	-	-	-	-
Linseed	64	76	76	115	102	236	256	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	3578	3063	3047	3461	3528	4520	4567	-

Source: Derived from Tables E, F & G.

RUMANIA

TABLE - I: RAW PROTEIN EQUIVALENT OF OILCAKES & MELAS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	43	17	10	10	10	10	10	-
Cottonseed	1	-	-	-	-	-	-	-
Sunflowerseed	1241	1080	1090	1229	1259	1576	1586	-
Rape/Mustard	21	9	-	-	-	-	-	-
Linseed	23	27	27	41	36	84	92	-
Sesamum	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	1329	1133	1127	1280	1305	1670	1688	-

Source: Derived from Table - H. Raw protein percent are taken from ISTA Oilworld, Semi-Annual May, 1967.

Commonwealth Economics Comittee.

1) Vegetable Oils and Oilseeds: A Review, Op.cit.
2) Commonwealth Secretariat Tropical Products Quarterly, Op.cit.
3) ISTA MIELKE & CO., Hamburg.
   a) Oilworld, Semi-Annual
   b) Oilworld, Quarterly
   c) Oilworld, Weekly.
4) United States, Department of Agriculture, Publications.

SUPPLY-DISTRIBUTION

25. YUGOSLAVIA

YUGOSLAVIA

TABLE - A : PRODUCTION OF OILSEEDS.

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	253	102	81	71	91	(81)	81 C	-
Cottonseed	51	41	41	61	51	(56)	56 C	-
Sunflowerseed	985	1168	1605	2306	2601	2652	2824	2530 *
Rape/Mustard	71	91	20	20	30	(25)	25 C	-
Linseed	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	--	-	-
Copra	-	-	-	-	-	-	-	-
Total	1360	1402	1747	2458	2773	2814	2986	2530
Castorseed	81	61	51	41	41	(41)	41 C	-

* ISTA (OILWORLD) Hamburg

( ) Estimated

YUGOSLAVIA

TABLE - B : IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	30	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
						*	*	*
Linseed	81	91	122	233	253	246	222	66
Palm Kernel	-	-	41	10	-	-	-	-
Copra	-	10	51	41	61	(51)	51[c]	-
Total	111	101	214	284	314	297	273	66

* ISTA (OILWORLD) Hamburg

( ) Estimated

YUGOSLAVIA

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1065	1066	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	30	10	10	20	51	90*	14*	73*
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	91	10	10	20	51	90	14	73

* ISTA (OILWORLD) Hamburg

YUGOSLAVIA

TABLE - D : OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	253	102	81	71	91	81	81	-
Cottonseed	51	41	41	61	51	56	56	-
Sunflowerseed	985	1158	1595	2286	2550	2562	2810	2457
Rape/Mustard	71	91	20	20	30	25	25	-
Linseed	81	91	122	233	253	246	222	66
Palm Kernel	-	-	41	10	-	-	-	-
Copra	-	10	51	41	61	51	51	-
Total	1441	1493	1951	2722	3036	3021	3245	2523
Castorseed	20	61	51	41	41	41	41	-

Source : Derived from Tables A, B & C.

YUGOSLAVIA

TABLE - E : OILCAKE EQUIVALENT OF OILSEEDS CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	199	80	63	56	71	63	63	-
Cottonseed	21	17	17	25	21	23	23	-
Sunflowerseed	659	775	1068	1531	1708	1716	1882	1646
Rape/Mustard	39	50	11	11	16	13	13	-
Linseed	51	58	78	149	161	157	142	42
Palm Kernel	-	-	21	5	-	-	-	-
Copra	-	3	17	14	21	17	17	-
Total	969	983	1275	1791	1998	1989	2140	1688

Source : Derived from Table D.

YUGOSLAVIA

TABLE - F : IMPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	14	5	199	473	1098	705	727	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	14	5	199	473	1098	705	727	-

YUGOSLAVIA

TABLE - G : EXPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut								
Soyabean								
Cottonseed								
Sunflowerseed								
Rape/Mustard				N I L				
Linseed								
Palm Kernel								
Copra								
Others								
Total								

YUGOSLAVIA

TABLE - H : NET AVAILABILITY OF OILCAKES & MEALS AND NET AVAILABILITY OF FISH MEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	213	85	262.	529	1169	768	790	-
Cottonseed	21	17	17	25	21	23	23	-
Sunflowerseed	659	775	1068	1531	1708	1716	1882	1646
Rape/Mustard	39	50	11	11	16	13	13	-
Linseed	51	58	78	149	161	157	142	42
Palm Kernel	-	-	21	5	-	-	-	-
Copra	-	3	17	14	21	17	17	-
Total	983	988	1474	2264	3096	2694	2867	1688
Fish Meal	126	34	28	234	339	272	411	-

Source : Derived from Table E, F & G.

YUGOSLAVIA

TABLE - I : RAW PROTEIN EQUIVALENT OF OILCAKES & MEALS (INCLUDING FISH MEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	97	39	120	243	537	353	363	-
Cottonseed	8	6	6	10	8	9	9	-
Sunflowerseed	243	286	395	566	631	634	696	609
Rape/Mustard	14	18	3	3	5	4	4	-
Linseed	18	20	28	53	57	56	51	15
Palm Kernel	-	-	3	--	-	-	-	-
Copra	-	-	3	3	4	3	3	-
Fish Meal	82	22	18	152	220	177	267	-
Others	-	-	-	-	-	-	-	-
Total	462	391	578	1030	1462	1236	1393	624

Source : Derived from Table H Raw Protein % are taken from ISTA OILWORLD, Semi-Annual May 1967.
Commonwealth Economic Committee
(1) Vegetable Oils and Oilseeds : A Review op. cit.
(2) Commonwealth Secretariate Tropical Products; Quarterly op. cit.
(3) ISTA, Mielke & Co. Hamburg: (a) Oilworld. Semi-Annual
(b) Oilworld, Quarterly
(c) Oilworld, Weekly
(4) United States, Department of Agriculture Publications.

TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	5.3	5.7	5.9	5.4
Hogs on farms	(million)	6.2	5.8	5.2	5.0
Eggs production	(million doz)	128	122	118	137
Poultry meat production	(million lbs)	150.1	147.8	141.1	147.8

	Unit	1964	1965	1966
Cattle on farms	(million)	5.1	5.2	5.6
Hogs on farms	(million)	6.1	7.0	5.1
Eggs production	(million doz)	144	146	146[c]
Poultry meat production	(million)	161.3	185.9	185.9[c]

Source : Commonwealth Economic Committee, Meat; Dairy Produce H.M.S.O., London, (various Issues).

YUGOSLAVIA

TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS 1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	2.6	2.8	2.9	2.7
Hogs	(million)	3.1	2.9	2.6	2.5
Eggs	(million doz)	0.9	0.9	0.9	1.0
Poultry meat	(million lbs)	0.7	0.7	0.6	0.7
Total		7.3	7.3	7.0	6.9

	Unit	1964	1965	1966
Cattle	(million)	2.5	2.6	2.8
Hogs	(million)	3.0	3.5	2.5
Eggs	(million doz)	1.0	1.0	1.0
Poultry Meat	(million)	0.7	0.8	0.8
Total		7.2	7.9	7.1

Source : Annexure Table J (See note on methodology for converting livestock into high protein consuming animal units)

TABLE - L : APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	46.2	39.1	57.8	103.0
Protein consuming unit	(million lbs)	101.6	86.0	127.2	226.6
Protein consuming units	(million)	7.3	7.3	7.0	6.9
Consumption per unit	(lbs)	14	12	18	33
Oilcake* consumption per unit	(lbs)	32	27	41	75

	Unit	1964	1965	1966
Protein consumption	('000 tonnes)	146.2	123.6	139.3
Protein consumption	(million lbs)	321.6	271.9	306.5
Protein consuming units	(million)	7.2	7.9	7.1
Consumption per unit	(lbs)	45	35	43
Oilcake* consumption per unit	(lbs)	102	79	98

Source : Yugoslavia : Supply-distribution Table I, Annexure Table J & K

* In terms of 44 % protein content.

SUPPLY-DISTRIBUTION

26. U.S.S.R.

U.S.S.R.

TABLE - A: PRODUCTION OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	2134	3759	4166	4369	3556	4500*	6000*	6200*
Cottonseed	28042	29667	28042	34544	34798	37186	41046	38608
Sunflowerseed	39665	47528	47945	42845	59893	54132	61397	66000*
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	4267	4216	4673	4064	3658	3962	4572	4572[c]
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	74108	85170	84826	85822	101905	99780	113015	115380
Castorseed	152	152	183	152	162	-	-	-

* ISTA Oilworld, Hamburg

U.S.S.R.

TABLE - B: IMPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	203	244	274	264	295	209	268	200
Soyabean	3505	102	-	-	-	934*	73 +	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	81	10	-	-	-	-	-	-
Rape/Mustard	41	-	-	-	-	-	-	-
Linseed	81	132	41	91	152	129*	88*	90*
Sesamum	61	122	81	102	122	79*	1*	60*
Palm Kernel	-	51	41	20	41	45*	76*	60*
Copra	51	213	102	132	102	74*	56*	60*
Total	4023	874	539	609	712	1470	562	470
Castorseed	81	20	30	30	10	-	-	-

* ISTA Oilworld, Hamburg

+ Foreign Agriculture Circular: U.S. Department of Agriculture

U.S.S.R.

TABLE - C : EXPORTS OF OILSEEDS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	-	-	-	-
Sunflowerseed	742	843	1087	985	1087	837*	1421*	2250*
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Total	742	843	1087	985	1087	837	1421	2250

* ISTA Oilworld, Hamburg.

U.S.S.R.

TABLE - D: OILSEEDS AVAILABLE FOR CRUSHING

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	203	244	274	264	295	209	268	200
Soyabean	5639	3861	4166	4369	3556	5434	6073	6200
Cottonseed	28042	29667	28042	34544	34798	37186	41046	38608
Sunflowerseed	39004	46695	46858	41860	58806	53295	59976	63750
Rape/Mustard	41	-	-	-	-	-	-	-
Linseed	4348	4348	4714	4155	3810	4091	4660	4662
Sesamum	61	122	81	102	122	79	1	60
Palm Kernel	-	51	41	20	41	45	76	60
Copra	51	213	102	132	102	74	56	60
Total	77389	85201	84278	85446	101530	100413	112156	113600
Castorseed	233	172	213	182	172	-	-	-

Source: Derived from Table A, B & C.

U.S.S.R.

TABLE - E: OILCAKE EQUIVALENT OF OILSEEDS CRUSHED

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut s/	113	136	153	147	165	117	150	112
Soyabean	4454	3050	3291	3451	2809	4292	4797	4898
Cottonseed	11777	12460	11777	14508	14615	15618	17239	16215
Sunflowerseed	26132	31285	31394	28046	39400	35707	40183	42712
Rape/Mustard	22	-	-	-	-	-	-	-
Linseed	2782	2782	3016	2659	2438	2618	2982	2983
Sesamum	31	63	42	53	63	41	-	31
Palm Kernel	-	26	21	10	21	23	39	31
Copra	17	74	35	46	35	25	19	21
Total	45328	49876	49729	48920	59546	58441	65409	67003

Source: Derived from Table-D.

U.S.S.R

TABLE - F : IMPORTS OF OILCAKE AND MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	98	696	411	470
Soyabean	-	-	-	-	-	-	-	-
Cottonseed	-	-	-	-	50	188	229	100
Sunflowerseed	-	-	-	-	-	-	-	-
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Total	-	-	-	-	148	884	640	570

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TABLE - G : EXPORTS OF OILCAKES & MEALS

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	-	-	-	-	-	-	-	-
Soyabean	340	150	100	50	55	50	180	210
Cottonseed	1900	2100	1850	1200	230	700	2050	2150
Sunflowerseed	2500	1400	1420	600	135	500	1610	1350
Rape/Mustard	-	-	-	-	-	-	-	-
Linseed	140	160	70	50	25	20	40	30
Sesamum	-	-	-	-	-	-	-	-
Palm Kernel	-	-	-	-	-	-	-	-
Copra	-	-	-	-	-	-	-	-
Others	84	51	46	32	10	22	25	20
Total	4964	3861	3486	1932	455	1292	3905	3760

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TABLE - H: NET AVAILABILITY OF OILCAKE & MEALS AND NET AVAILABILITY OF FISHMEAL

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	113	136	153	147	263	813	561	582
Soyabean	4114	2900	3191	3401	2754	4242	4617	4688
Cottonseed	9877	10360	9927	13308	14435	15106	15418	14165
Sunflowerseed	23632	29885	29974	27446	39265	35207	38573	41362
Rape/Mustard	22	-	-	-	-	-	-	-
Linseed	2642	2622	2946	2609	2413	2598	2942	2853
Sesamum	31	63	42	53	63	41	-	31
Palm Kernel	-	26	21	10	21	23	39	31
Copra	17	74	35	46	35	25	19	21
Others	-84	-51	-46	-32	-10	-22	-25	-20
Total	40364	46015	46243	46988	59239	58033	62144	63813
Fishmeal	851	1006	1122	1200	1478	1598	1725	1670

Source: Derived from Table E, F & G.

U.S.S.R.

TABLE - I: RAW PROTEIN EQUIVALENT OF OILCAKES & MEALS (INCLUDING FISHMEAL)

('00 tonnes)

	1960	1961	1962	1963	1964	1965	1966	1967
Groundnut	58	70	79	76	136	422	291	302
Soyabean	1892	1334	1467	1564	1266	1951	2123	2156
Cottonseed	4049	4247	4070	5456	5918	6193	6321	5807
Sunflowerseed	8743	11057	11090	10155	14528	13026	14272	15303
Rape/Mustard	7	-	-	-	-	-	-	-
Linseed	951	943	1060	939	868	935	1059	1063
Sesamum	12	25	16	21	25	16	-	12
Palm Kernel	-	4	3	1	3	4	7	5
Copra	3	16	7	10	7	5	4	4
Fishmeal	553	654	729	780	961	1039	1121	1086
Others	-31	-18	-17	-11	-3	-8	-9	-7
Total	16237	18332	18504	18991	23709	23583	25189	25731

Source: Derived from Table D: Raw Protein % are taken from
ISTA Oilworld, Semi-annual May 1967

Commonwealth Economic Committee
1) Vegetable Oils and Oilseeds - A Review op-cit
2) Commonwealth Secretariate Tropical Products Quarterly op.cit.
3) ISTA, Mielke &Co., Hamburg a) Oilworld, Semi-Annual; b) Oilworld, Quarterly; c) Oilworld, Weekly
4) United States Department of Agriculture : Publications

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TABLE - J : CATTLE & HOGS ON FARMS, PRODUCTION OF EGGS AND POULTRY MEAT 1960-66

	Unit	1960	1961	1962	1963
Cattle on farms	(million)	74.2	75.8	82.1	87.0
Hogs on farms	(million)	53.4	58.7	66.6	70.0
Eggs production	(million doz)	2289.0	2442.0	2507.0	2375.0
Poultry meat production	(million lbs)	1657.6	1792.0	1792.0	1792.0

	Unit	1964	1965	1966
Cattle on farms	(million)	85.4	87.2	93.4
Hogs on farms	(million)	40.9	52.8	59.6
Eggs production	(million doz)	2225.0	2422.0	2620.0
Poultry meat production	(million lbs)	1344.0	1568.0	1568.0[c]

Source : Commonwealth Economic Committee, Meat, Dairy Produce H.M.S.O. London (Various issues)

c : Assumed constant.

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TABLE - K : HIGH PROTEIN MEAL CONSUMING ANIMAL UNITS 1960-66

	Unit	1960	1961	1962	1963
Cattle	(million)	37.1	37.9	41.0	43.5
Hogs	(million)	26.7	29.3	33.3	35.0
Eggs	(million doz)	16.3	17.4	17.9	17.0
Poultry meat	(million lbs)	7.4	8.0	8.0	8.0
Total		87.5	92.6	100.2	103.5

	Unit	1964	1965	1966
Cattle	(million)	42.7	43.6	46.7
Hogs	(million)	20.4	26.4	29.8
Eggs	(million doz)	15.9	17.3	18.7
Poultry Meat	(million lbs)	6.0	7.0	7.0
Total		85.0	94.3	102.2

Source : Annexure Table - J (See note on methodology for converting livestock into high protein consuming animal units)

U.S.S.R.

TABLE - L: APPARENT CONSUMPTION OF OILCAKE PROTEIN PER ANIMAL UNIT 1960-66

	Unit	1960	1961	1962	1963
Protein consumption	('000 tonnes)	1623.7	1833.2	1850.4	1899.1
Protein consumption	(million lbs)	3572.1	4033.0	4070.9	4178.0
Protein consuming units	(million)	87.5	92.6	100.2	103.5
Consumption per unit	(lbs)	41	44	41	40
Oilcake* consumption per unit	(lbs)	93	100	93	91

	Unit	1964	1965	1966
Protein consumption	('000 tonnes)	2370.9	2358.3	2518.9
Protein consumption	(million lbs)	5216.0	5188.3	5541.6
Protein consuming units	(million)	85.0	94.3	102.2
Consumption per unit	(lbs)	61	55	54
Oilcake* consumption per unit	(lbs)	139	125	123

Source: U.S.S.R.: Supply Distribution Table I, Annexure Table J & K

* : In terms of 44% protein content

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